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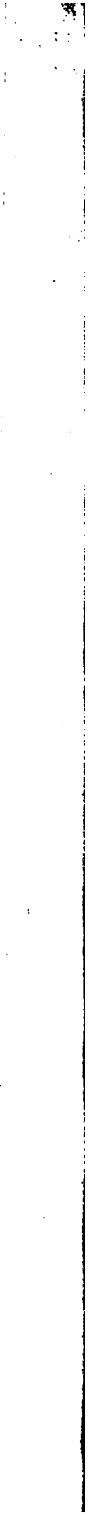
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Twenty-Fourth Annual Coal Report

OF THE

Illinois Bureau of

# LABOR STATISTICS

~~1905~~ 1904/05

ALSO THE

Seventh Annual Report

OF THE

Illinois Free Employment Offices

FOR THE

Year Ended September 30, 1905

---

DAVID ROSS, *Secretary*, Springfield



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1905.

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1

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1905.

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1905.

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## ILLINOIS FREE EMPLOYMENT OFFICES.

---

### CHICAGO.

NORTH SIDE OFFICE, 259-261 North Clark st., Turner Hall Building.

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GEORGE REICH, *Asst. Supt.*

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OFFICE, Masonic Temple.

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MISS NONA O. EDSTROM, *Clerk.*



STATE OF ILLINOIS,  
OFFICE OF THE BUREAU OF LABOR STATISTICS.

SPRINGFIELD, Jan. 1, 1906.

HON. CHARLES S. DENEEN, *Governor of Illinois.*

SIR—I have the honor, on behalf of the Board of Commissioners of Labor, to submit herewith the twenty-fourth annual report of the coal industry of the State for the year ended July 1, 1905, together with the seventh annual report of the Illinois Free Employment offices, for the year ended September 30, 1905.

Very respectfully,

DAVID ROSS,

*Secretary.*



## TABLE OF CONTENTS.

Disaster at Zeigler.....	1
Plat of the Zeigler mine.....	2
Report to Governor Deneen of the State Mining Board and the State Inspectors of mines as to the cause of the explosion at the Zeigler mine.....	3
Report to Governor Deneen by James Taylor, State Inspector, Third District, as to the explosion at the Zeigler mine.....	4
Report to Governor Deneen by John G. Massie, as to the explosion at the Zeigler mine..	7
Map of the Zeigler mine.....	8
The Zeigler Coal Mine Disaster.....	11
<b>COAL IN ILLINOIS—</b>	
Summary for the year.....	13
Classification of mines.....	14
Shipping and local mines.....	16
Grouping of mines.....	18
Collieries of largest output.....	24
Number of mines.....	29
Shipping mines.....	30
Operators.....	32
Shipping mines—distribution of output.....	32
Location of shipping mines.....	43
Graded output for the year.....	45
Mines, men and tons.....	47
Output by six months periods.....	50
Haulage in the mines.....	66
Output by counties.....	67
Disposition by counties.....	70
Distribution by districts and counties.....	72
Distribution by railroads and counties.....	75
Coal delivered to railroads.....	79
Counties, and tons delivered to railroads.....	81
Days of active operation.....	86
Average value of coal.....	88
Mine employés.....	91
Prices paid for mining.....	93
Payment of wages.....	95
Earnings of miners.....	96
Machine mining.....	98
Powder used in mines.....	102
Fatal accidents in mines.....	116
Non-fatal accidents.....	130
Blasting down coal in the mines.....	138
Physical character of the coal mines in Illinois.....	151
<b>GENERAL RECAPITULATIONS—</b>	
Production, shipping and local mines.....	178
Aggregate value of the different grades.....	179
Distribution of the output.....	180
Hand and machine mining, average prices, machines, powder.....	181
Average value all grades per ton.....	182
Employés, days in operation, casualties.....	183



## ANNUAL REPORTS OF STATE INSPECTORS OF MINES—

<b>FIRST INSPECTION DISTRICT—Hector McAllister, Inspector.</b>	
Text of the report.....	184
New mines.....	185
Abandoned mines.....	186
Changes in ownership.....	186
Improvements.....	186
Mine fires.....	187
Fatal accidents, description of.....	187
Tables of fatal and non-fatal accidents.....	189
Statistical tables of counties.....	194
Recapitulation by counties.....	204
<b>SECOND INSPECTION DISTRICT—Thomas Hudson, Inspector.</b>	
Text of the report.....	206
New mines and mines worked out and abandoned.....	207
Condition of coal trade, prospective mines, improvements.....	208
Escapement shafts.....	208
Fatal accidents—description of.....	208
Tables of fatal and non-fatal accidents.....	212
Statistical tables of counties.....	217
Recapitulation by counties.....	232
<b>THIRD INSPECTION DISTRICT—James Taylor, Inspector.</b>	
Text of the report.....	234
Escapement shafts.....	235
New mines.....	237
Fatal accidents—description of.....	239
Tables of fatal and non-fatal accidents.....	240
Statistical tables of counties.....	244
Recapitulation by counties.....	265
<b>FOURTH INSPECTION DISTRICT—Thomas Weeks, Inspector.</b>	
Text of the report.....	266
New and abandoned mines.....	267
Prospective mines, improvements.....	267
Business changes, enforcement of mining law.....	268
Mine fire.....	269
Fatal accidents—description of.....	270
Tables of fatal and non-fatal accidents.....	274
Statistical tables of counties.....	280
Recapitulation by counties.....	292
<b>FIFTH INSPECTION DISTRICT—Walton Rutledge, Inspector.</b>	
Text of the report.....	294
New mines.....	295
Improvements.....	296
Change of corporate names.....	297
Prospective mines.....	297
Fires at mines.....	298
Explosion in mines.....	298
Cause of explosion.....	300
Fatal accidents—description of.....	301
Tables of fatal and non-fatal accidents.....	303
Statistical tables of counties.....	308
Recapitulation by counties.....	320
<b>SIXTH INSPECTION DISTRICT—John Dunlop, Inspector.</b>	
Text of the report.....	322
New mines.....	323
Changes in names of companies.....	324
Abandoned mines.....	325
Fatal accidents—description of.....	325
Tables of fatal and non-fatal accidents.....	327
Statistical tables of counties.....	330
Recapitulation by counties.....	340

ANNUAL REPORTS OF STATE INSPECTORS OF MINES—*Concluded.*SEVENTH INSPECTION DISTRICT—*William Atkinson, Inspector.*

Obituary notice, William Atkinson .....	342
New mines .....	343
Fatal accidents—description of .....	345
Tables of fatal and non-fatal accidents .....	348
Statistical tables of counties .....	354
Recapitulation by counties, shipping mines .....	370
Recapitulation by counties, local mines .....	372

## APPENDIX.

## REGISTER OF CERTIFICATED—

Mine managers .....	377
Hoisting engineers .....	394
Mine examiners .....	406

## ILLINOIS FREE EMPLOYMENT OFFICES—

Introduction .....	3
Business of the four offices for the year .....	5
Classified occupations for six years .....	8
Applications for employment and help and positions secured, six years .....	11
Skilled and unskilled labor .....	13
Applications for employment .....	14
Applications for help .....	18
Positions secured .....	21
Occupations classified .....	25
Summary, leading occupations .....	29
Classification of occupations .....	31
Age periods of applicants .....	38
Conjugal conditions .....	44
Nationality .....	50

## REPORTS OF SUPERINTENDENTS—

NORTH SIDE OFFICE—*Charles McMahon, Superintendent.*

Text of the report .....	64
Expense account .....	65
Applications for employment and help .....	65

SOUTH SIDE OFFICE—*George W. Geary, Superintendent.*

Text of the report .....	67
Expense account .....	68
Applications for employment and help .....	68

WEST SIDE OFFICE—*S. P. Revere, Superintendent.*

Text of the report .....	71
Expense account .....	72
Applications for employment and help .....	72

PEORIA OFFICE—*David Conigisky, Assistant Superintendent.*

Text of the report .....	76
Expense account .....	77
Applications for employment and help .....	77



## TWENTY-FOURTH ANNUAL REPORT.

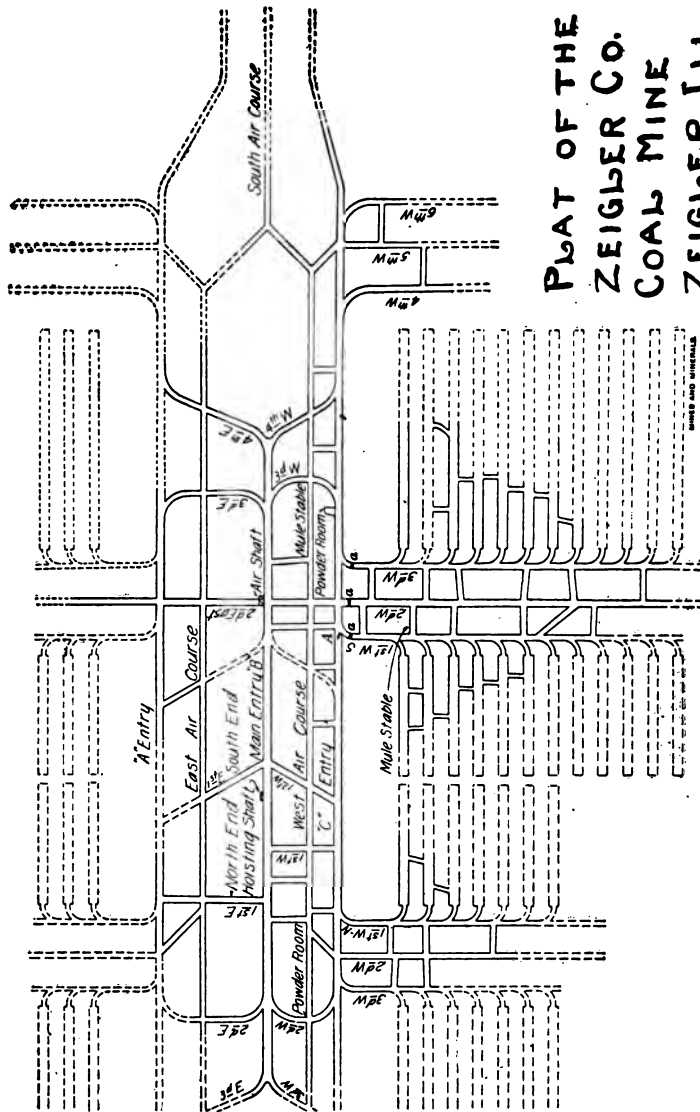
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STATISTICS OF COAL IN ILLINOIS FOR THE YEAR ENDED JUNE 30, 1905.

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### THE DISASTER AT ZEIGLER.

On the morning of April 3, 1905, an explosion occurred in the coal mine at Zeigler, Franklin county, Illinois, as a result of which 50 men lost their lives. Of this number William Atkinson, district mine inspector; John Graham, mine examiner; and John Lindsey, miner; died in the mine on the evening of the same day, from the effects of after-damp, while engaged in the work of rescue. Excepting the catastrophe at Braidwood in 1883, where 69 men were lost in consequence of the flooding of the Diamond mine, this was the greatest loss ever sustained in the mining industry of the State at any one time. Immediately after being informed of the explosion, Governor Deneen summoned the State Mine Inspectors and the members of the State Mining Board, and requested them to at once proceed to Zeigler, make a careful and thorough investigation of the premises and the cause of the explosion, and report their findings to him. They found upon their first visit that the conditions existing in the mine prevented a complete examination. Several days later a second visit was made, as a result of which the report following, including plat of the mine, showing the system of underground development was submitted.



APRIL 20, 1905.

*To His Excellency, CHARLES S. DENEEN, Governor of the State of Illinois.*

SIR: In compliance with your request, we the undersigned State Mining Board and State Inspectors of Mines, have visited the Zeigler Coal Company's mine, located at Zeigler, Illinois, for the purpose of investigating the recent explosion at their mine (Apr. 3, 1905), at which place 51 persons lost their lives, and we have the honor herewith to submit the following report:

We find that the mine had not been legally examined since March 23, 1905. Under the Mining law in force in this State, every mine must be examined every morning before the men are permitted to enter the mine. The examination to be made by a duly qualified person, whose ability to perform such duties are certified to by the State Mining Board. This requirement was not observed during the period herein stated.

We also find that the mine had been operated in violation of the Mining laws, in not having the cross-cuts made at the proper distance, which is sixty (60) feet apart.

We find from our own observation, and the plat herewith submitted shows, that entries and rooms have been driven a distance of two hundred and fifty (250) to three hundred and fifty (350) feet ahead of the last cross cut.

We further find that this mine is generating Marsh gas, and when mixed with a certain quantity of air becomes explosive.

Commencing on the south side of the mine, we found explosive gas at the face of entry A, also at the face of crosscut, from east airway leading to entry A, also at the face of the east airway.

We found a large quantity of explosive gas at the face of the south airway.

On opening up numbers one, two and three, west entries, which had been closed on account of a fire originating from the explosion: we examined room number one on third west entry, which had been driven three hundred and fifty (350) feet without a crosscut and found it full of explosive gas.

At the face of the first east crosscut of the east airway, we found a small quantity of explosive gas.

At a distance of five hundred (500) feet north of the hoisting shaft, on main entry B, fire was found, which was caused by the explosion.

On entry C, two hundred and twenty-five (225) feet south of the second west entry, is located a powder room, the dimensions of which are approximately seven (7) feet high, ten (10) feet wide and twenty (20) feet deep, in which the officials of the company state that forty-three (43) kegs of powder, one and one-half boxes of Masurite (which is a low grade of dynamite), also a quantity of detonating caps, the number unknown, all of which had been exploded.

Having this powder and explosives stored in the mine is a violation of the Mining Law.

There was also stored in the powder room a quantity of fuse, which was all burned.

From the statement made by the officials of the company, in which they say the fan was stopped at eleven-thirty (11:30) P. M., March 31, 1905, at which time all of the men were called out of the mine, owing to the ventilation being cut off and the mine generating Marsh gas.

When the fan was stopped, they depended upon the three air compressors to produce ventilation, which was not sufficient to ventilate the mine.

Notwithstanding the above condition, the men were permitted to enter the mine Saturday night, Sunday night and Monday morning and at seven-ten (7:10) A. M., April 3, 1905, the explosion occurred.

The fan was again started at five-thirty (5:30) P. M. on the same day, before the rescuing party entered the mine.

We are of the opinion that the amount of air furnished by the three air compressors was not sufficient to ventilate the mine, but was sufficient to render the Marsh gas explosive.

From the above conditions, we are of the opinion that the explosive gas was first ignited, which caused the powder to explode, thus increasing the intensity of the explosion, thereby destroying life and property.

Respectfully submitted,

*State Mining Board:*

RICHARD NEWSAM, *President.*  
LEE KINCAID, *Treasurer.*  
DANIEL REESE, *V. P.*  
ANDREW FLESHER, *H. E.*

*State Inspectors of Mines:*

HECTOR McALLISTER, *1st District.*  
THOMAS HUDSON, *2d District.*  
JAMES TAYLOR, *3d District.*  
THOMAS WEEKS, *4th District.*  
WALTON RUTLEDGE, *5th District.*  
JOHN DUNLOP, *6th District.*

In order to fully ascertain all the facts, in addition to the investigation made by the State Mining board, and Mine inspection Corps, the Governor delegated Mine Inspector James Taylor, of Peoria, and John G. Massie of Belleville, men of ability and long experience in mining affairs, to supplement the work of the others, each to make a separate investigation and report. The results of their examinations are given in the reports following:

PEORIA, ILL., April 22, 1905.

*To His Excellency, CHARLES S. DENEEN, Governor of the State of Illinois:*

SIR—Complying with your instructions of April 10, 1905, I have made an investigation of the cause of the explosion which took place at the Ziegler Coal Company's mine, April 3, 1905, in which fifty-one lives were lost.

My investigation covered a period of eight days, from April 12 to April 20, 1905.

I found the mine in a very dangerous condition, owing to falls and accumulation of a large quantity of "fire damp." That the few men working in it were being lowered in a bucket attached to a rope with two strands that had been burned through with an electric current, while in use at or near the hoisting shaft. The condition of the rope was known at the time that it was placed on the bucket at the escapement shaft. I immediately had this rope taken off and replaced with a new one, thereby increasing the safety of lowering the men into the shaft with the bucket, a distance of 417 feet, until we were able to place the hoisting shaft in condition to use the cages.

While making an inspection of the mine, I found it in a very dangerous condition owing to the large accumulation of fire damp and an extensive fall on B entry. I immediately secured the services by wire of the following mine managers: Mr. Harry Barlow, Johnson City; Mr. Robert Winning, Carterville; Mr. D. Church, and Mr. Harry Jones, Marissa. The last two named gentlemen I placed in charge, as mine examiners, and they reported each examination to me in person night and morning, filing the same report in the new inspection book secured for that purpose. Mr. Harry Barlow had charge of the day shift, and Mr. R. Winning the night shift. Mr. Thomas Watson, having a thirty day permit to act as mine manager, and being one of the company's employes, had charge of securing men for each gang and acted as my assistant in going through the mine while making the investigation.

Having restored the ventilation in part, I measured the air-current, April 13, 1905, between the first crosscut and the first east at B north, and found the velocity of the air to be 860 cubic feet per minute, and the area of the entry to be 87 square feet. The quantity of air passing at this point being 76,820 cubic feet per minute. With this quantity of air passing down the shaft we found that ventilation could not be restored at the working faces of the north A entry, 3d east crosscut, 4th east crosscut, east air-course, west air-course, south air-course and C entry, which were full of fire damp, until we had placed brattice cloth along the rib of each entry, to conduct the air-current to the working face, which in some instances was a distance of 325 feet ahead of the last crosscut. Had the crosscuts been placed in compliance with the mining law (not more than 60 feet apart) we should have met with little difficulty in removing the gas; but having to put up a brattice cloth the distance above mentioned and remove this amount of gas safely required the most careful attention, but we succeeded in finally removing all the gas that had accumulated in these entries.

From an examination of the mine examiner's report book, we find that explosive gas had been found and reported as being in the 4th east and airway off it, and in crosscut off 4th west on south, danger sign up, gas in 1st room on north in airway south, and in airway off 4th east south, gas in B airway south, and in 4th east south, and A airway; rooms on north side way have collected gas since time of last examination. Find gas in A and B airway south, gas in east off air shaft. These reports were made by John Graham, the certificated mine examiner, and extend from Sept. 1, 1904, to March 22, 1905. He made two examinations every twenty-four hours, one before the day men went in the mine and one before the night men entered. The report book shows that no examination had been made of the mine since March 31, 1905, and from the same source we learn that there had been no examination made since March 22, 1905, in compliance with the following section of the mining law:

Section 8, par. (g). "It shall be unlawful for the operator of any mine to employ, or suffer to serve as mine examiner, any person who does not hold a certificate of competency issued by the State Mining Board: *Provided*, that any one holding a mine manager's certificate may serve as mine examiner."

Mr. Thomas Carraher, a non-certificate man, made the examination March 23 and 24, and report book shows no examination March 25 and 26. Mr. Mike Canfield made the examination for March 27 and March 31, 1905. He is not a certificated mine examiner or mine manager.

I find that this mine is generating marsh gas at the working faces, which becomes explosive when mixed with a given quantity of air. I found explosive gas in large quantity in entry A and in crosscut leading from entry A to east air-course. In this crosscut which is 100 feet long they had been taking up the bottom to a depth of 3 to 4 feet, making the height at this place from 14 to 16 feet, where the gas had accumulated in large quantity. It was here where the mine manager, with sixteen men, on the morning of the explosion, had gone to work with naked lamp, and it was at this place these bodies were found after the explosion.

I found fire damp in large quantity in the fourth east and airway off it, on south side, also in the east airway, south, and in the south airway. In the crosscut and south airway there were no less than 24,000 cubic feet of explosive gas. In the fourth, fifth and sixth, west off entry C, and from the crosscut to the west airway to the face of entry C, explosive gas in large quantity was found on my first visit to this place. In the first, second and third west entries, a fire had been started by the explosion, and these entries had been closed up by wood stopping. On opening up these entries we found them full of gas and that there was a cloth brattice across the first west entry at a distance of about 50 feet from the wood brattice at the mouth of the entry. It became necessary for some one to take down this brattice cloth and go through the deadly gas in order to get to it. The company having two Vajen-Bader head protectors which had never been used, I put one on and entered the poisoned atmosphere of No. 1 entry and succeeded in taking down



the brattice, thereby allowing the fresh air to enter at No. 3 entry and drive out the gasses from Nos. 1 and 2 entries. This could not have been accomplished without a head protector. Every State inspector should be provided with a head protector.

We were able to get as far as the second crosscut by noon the following day and found that the room on the third entry was full of fire damp. The map shows this room to have been driven a distance of 350 feet without a crosscut. Two hundred and twenty-five feet south of the second west entry, on entry C, is located a powder room in the pillar, the dimensions of which are approximately seven (7) feet high, ten (10) feet wide and twenty (20) feet deep, in which the officials of the company stated that forty-three kegs of powder and one and one-half boxes of masurite had been stored, also a quantity of detonating caps, the number unknown, all of which had been exploded.

The storing of the above explosives in the mine was a violation of Section 20 of the mining law, which is: "No blasting powder or other explosive shall be stored in any coal mine, and no workman shall have at any time more than one 25-pound keg of black powder in the mine, nor more than three pounds of high explosives."

Directly in front of the opening into the powder room is a double track for hauling coal to the bottom of the shaft; also a double trolley wire for the electric motor. The track has not been disturbed and the trolley wire nearest the powder room is in the same position as before the explosion, while the second trolley wire is off three of its braces. In other parts of the mine, north and south, the trolley wires are twisted in every conceivable shape, and pit cars piled up on each other.

I found that the ventilating fan had been stopped at 11:30 p. m., Friday, March 31, 1905, at which time one of the mining officials gave instructions to call out all the men from the mine owing to the ventilation being cut off. The compressors were at work at the time of stopping the fan and were depended upon to produce ventilation from 11:30 p. m., March 31, to April 3, the morning of the explosion. The three compressors were expected to ventilate this mine, having no less than 1,786,000 cubic feet of space in entries and rooms opened up in which forty-seven men and five mules were working. The catalogue capacity of these compressors is given at 1,200 cubic feet of free air per minute. Taking this as a basis, we have for the three compressors 3,600 cubic feet of air per minute.

Section 19 of the mining law states that throughout every coal mine there shall be maintained currents of fresh air sufficient for the health and safety of all men and animals employed therein, and such ventilation shall be produced by fan or some other artificial means.

The fan being stopped, the men were permitted to enter the mine on Saturday and Sunday night, and again on Monday morning, the day of the explosion, without the mine having been examined by any one. This is shown by the inspector's book. The quantity of compressed air produced at the working face was sufficient to bring the marsh gas to the explosive point, but it was not sufficient to produce a lawful amount of ventilation for the men and mules in the mine at the time of the explosion.

In conclusion, I am of the opinion that the explosive gas in the third east crosscut from entry B to entry A, known to the miners as the stone heading, was ignited accidentally by a common miners' lamp (an open lamp) in possession of one of the seventeen men who had gone there to work, as all of these men had naked lamps.

This mine had been operated up to the time of the explosion in violation of the mining laws.

Respectfully submitted,

JAMES TAYLOR,

State Inspector of Mines, Third District.

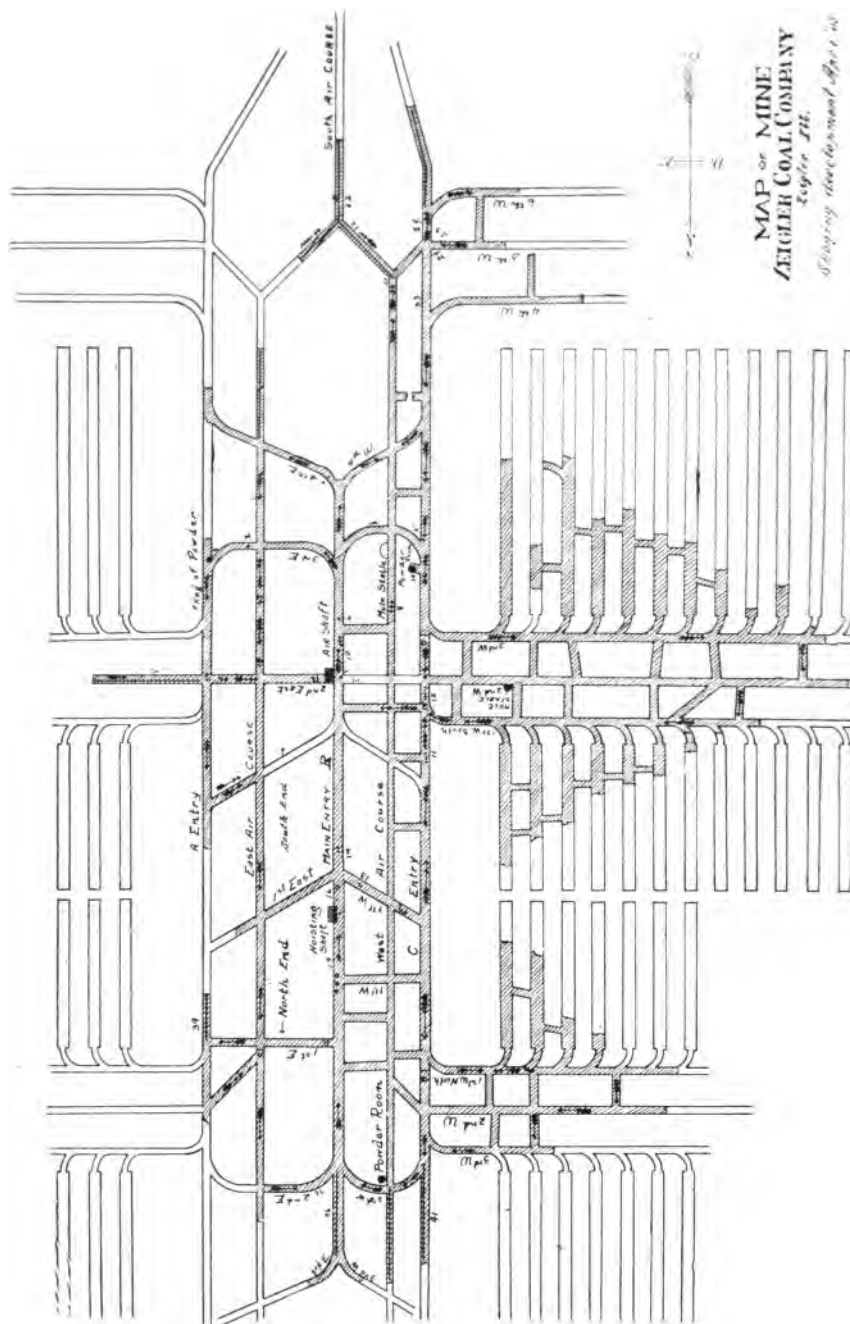
BELLEVILLE, Ill., April 25, 1905.

*Governor CHARLES S. DENEEN, Springfield, Ill.*

DEAR SIR—In obedience to your instructions, I started to Ziegler, Ill., on the 12th inst., arriving the morning of the 13th, and at once entered the mine for the purpose of investigating the cause of the disaster in which fifty men lost their lives.

The hoisting shaft, air and escapement shafts are 500 feet apart. They are timbered with 12 by 12 inch timbers about four feet apart and 3 by 12 inch backing, running up and down. The shafts are 417 feet deep and were lined inside with 1 by 12 inch boards. The air shaft was equipped with engine and bucket and a stairway; the lining of this shaft and most of the stairway were blown out, crushed to fragments and scattered over a large area. A skip in the hoisting shaft hanging twenty-five feet above the coal and weighing six and a half tons was blown up to the top of the tower, a distance of 527 feet, and wedged so tight that it stayed there until removed by the iron workers. The other skip was at the surface. Three iron workers were repairing it at the time it was blown out and up against a four-foot truss, bending it out of shape and badly injuring the workmen. On going to the bottom of the shaft I found the most complete wreck I ever saw. There were but few places at that time that could be entered with safety, owing to the presence of dangerous and deadly gases. We, however, after some time, restored the ventilation, so that all the mine except a small part of the first, second and third west entries could be explored.

I herewith submit a plan of the mine. The shaded lines show the work done, the plain lines show the work in contemplation. The single-head arrows show the travel of the air before the explosion; the double-head arrows show the direction of the forces, and the points where the greatest disturbances occurred. The small dots show where the men were found; the marks O show where the mules were found, the dotted lines show where the brattices were located; places marked D with a line across the entry is where doors were located. The line across the entry and letter C is where curtains were hung to change the course of the air. At the point marked 1 east side, south of the shaft, eighteen men were found, scattered along the entry for a distance of about 100 feet. At 2 Mr. Baxter, the mine manager, was found. At 3 I found a keg of powder; it had been opened and some powder taken out, possibly three to five pounds, a leather glove was stuffed in the hole for a stopper. About eight feet north of this keg was a pile of 60-pound rails, and on one of them was a powder keg which the rail had passed through about eight feet, when the powder had ignited; it is still on the rail. I may say here that only one keg of powder was found in the mine and it was within a few feet of where terrific forces and fire had passed through. At 4 one man was found; at 5 one man; at 6 one man; at 7 is where William Atkinson, State Inspector of Mines, and John Lindsay were found, between the rails; John Graham, mine examiner, was found just at the corner of the pillar of the first west entry. They had evidently gone due west after descending the shaft, to the mouth of the second west, then turned north for the purpose of exploring the first west entry. At 8 three men were found; at 9 two men; at 10 three men; at 11 five men; at 12 five men; at 13 two men; at 14 two men; at 15 one man; at 16 one man; at 17 one man; total, fifty men. There is one yet to be accounted for; it is believed he is under a large fall of rock at the hoisting shaft. At 15 three mules were found; at 16 one mule; at 18 there was a terrible wreck of mine cars for a distance of about 100 feet; at 19 there was a wreck of mine cars, the forces having come east out of the first west entry and met an equal or greater force coming south along C entry. This was a bad wreck, the fact of the cars being between the first and second west entries goes to show that the greatest force traveled south until the passage was partially blocked, then it turned east in the direction of the air shaft. At 20 there was another wreck; on the last car, on the north end of the wreck, there was a powder keg stuck fast on the corner of a car; it had struck the car while flying through the air and bent around the corner of the car and stuck fast; it required considerable force to remove it. At 21 the forces were exerted north, as shown by the double arrow; at 22 the forces were northeast; at 30 the forces were south; at 29



the forces were southeast; there was a wrecked motor and some wrecked mine cars here. At 32 there was a wrecked car and two forces met here, one going south and the other going east or rather northeast, as shown by the double arrows. At 23 the forces were south; there was a wrecked car here. At 24 there was a wrecked motor. At 25 the forces were south; at 33 was a wreck of mine cars; at 34 the powder room was located. There was said to be forty-one kegs of powder in it; I counted eighteen exploded kegs in the room in front of this room.

The track was uninjured; the trolley wire nearest the entrance to this room was not blown down; the trolley wire over the track farthest from the room entrance was blown loose and hanging midway between roof and track. North and south of this room the wreck of cars, track and timbers was most complete. The timbers in the mine were nearly all blown down, all over the mine, and nearly all of them, with but one exception, and that was on main B entry between the two shafts; and many of them were blown out and a large fall of rock on this entry, as a consequence. At 35 the forces were west; at 36 they were west; at 37 the forces were south; at 38 and 39 they were west; at 40 the forces were east; at 41 the forces were south.

This mine, I understand, was laid out by a Chicago firm of engineers; the bottom is their own work I suppose. After leaving the bottom, they have copied the three entry system of J. G. Massie, which was designed by him for a separate current of air for each entry, but you will observe from the map that this has not been carried out. At the third east, south side, the air was split and a part of the volume going east to the east air course, a part continuing to A entry, thence north to second east, thence north and west to second east, thence north to first east, thence southwest to main B entry and out to the surface. The other current went south to fourth west, to west air course to cross cut, southwest, thence up sixth west, through cross cut and down fifth west to C entry, thence down C to third west; up third west to last crosscut, thence through to second west, thence to first west, thence out to C entry, thence north to first west north, thence west to last crosscut, thence through last crosscut to second west, thence through third west, thence east to C entry, thence north to crosscut east, thence up second east, thence down east air course to first east, thence down first east to main B entry, thence north to shaft and out.

This mine is laid out for the adoption of the best system of ventilation now known to the science of mining, but the ventilation applied to this system is the oldest and most primitive known to mining. The brattices I have shown in this map for conducting the air around the mine were all blown out by the explosion. The general manager informed me that they were all in before the explosion, I could find no evidence that they were in, neither could I find any evidence that they were not in, but to take the most charitable view of it, and assume that they were all in, and the air passing, as indicated by the single arrows. How this system can dilute, and carry off the gases generated in the dead ends, is more than I can understand. From 29 to 30 and back northeast to 22 south air course, they had a brattice. At 35 they had a fan placed, exhausting air into a 10 x 12 inch box pipe, and discharging it at the face indicated by 22; on the supposition that the gases generated at the face, would be diluted and passed around the brattice and up the south air course to the face, perform a like mission there and be returned to 29, where the main ventilating current was passing, and from there be carried to the surface.

The brattice in main C south, was supposed to perform a like mission, only they had a two-inch air pipe in this entry. At 36, second east entry was another brattice, with a two-inch pipe to the face. At 39 A entry was another brattice.

On B entry, and third east and third west, at extreme north was a brattice, with a two-inch pipe to face; and in west air course and entry C were brattices, all expected to blow gas out on to the main ventilating current, thence to the surface. At 35 they had their fan. At 36 south air course is where I found it a total wreck. Their idea was to blow sufficient air to the face with this underground fan, to blow all gases around the entire length of the brattice and out to the main current. This is clearly an impossibility.

What it did do, was to force air from the fan through the pipe to the face until the entry was full, then it would flow back to the fan, reenter the fan and again be discharged at the face and continued to repeat this operation. With the entries that had the pipes in them they could partially dilute the gas while the air current passing the outer end of the brattice would back up for some distance into the entries and some of the gas would diffuse to such an extent as to permit them to work for a limited time.

Before proceeding further, I will briefly discuss pipe ventilation. The method of blowing air through pipes into a mine, is utterly impracticable and inimical to thorough ventilation; in effect it is nothing more or less than laying a pipe within a pipe and forcing a current of air through a passage that needs no ventilation, (that is the pipe), and conducting the air in a close pipe past the very object for which it is sent into and through a mine.

They have three Ingersol-Sergeant compressors at this mine, each, when running up to the limit of its capacity, capable of compressing 1,100 cubic feet of free air per minute, or 3,300 for the three. With this air they run the engine at the air shaft to lower material; run a double ram in the bottom of the hoisting shaft to load the skips; and to run a pump at bottom of hoisting shaft; and to run three air drills; and for ventilating the places that are bratticed at 7. In number, I am informed, this machinery was run up to the time of the explosion, 7:15 a. m., April 3. I am further informed that on Sunday, April 2, that one compressor was shut down, and further that the other two were running at half speed, viz: 40 to 50 revolutions per minute. I was informed that at 5:00 a. m. Monday the 3d inst. that the three compressors were again running at full speed. I am informed that the fan was stopped Friday evening, March 31, and not started again until Monday, the 3d inst. at 5:30 p. m. They have a fan 6 by 18 feet, capable of delivering 75,000 cubic feet of air per minute; more than enough to ventilate this mine, if properly distributed.

Now, the facts briefly stated, as I believe, are: There were 41 kegs of powder in the powder rooms, below ground, and about 150 men on the two shifts, and it is only fair to assume that there were not less than 75 kegs of powder at the faces of the working places, that is to say, half a keg for each man. This would be 116 kegs of powder in all. Now, the fan stopped from Friday evening until the time of the explosion, so the ventilating current was also stopped, and all the air that went into the mine was sent in through the two-inch pipes to 7 dead ends, just barely sufficient to prepare an explosive mixture of the most violent nature. The mine was known to generate fire damp. This their report book shows. It also shows the mine was not examined Saturday or Monday. The result—a magazine ready for the flame to set it off. There were two separate and distinct explosions from two to three seconds apart. The first was the gas and the powder at the working faces, the second the 41 kegs in the powder room; the first explosion burst the kegs and set them off; the first explosion was the most violent; it went up the air shaft; the second went up the hoisting shaft, that being the line of least resistance. I further believe the mine manager is the man who ignited the gas, he having been found about 75 feet further in advance of the workmen. I asked the general manager why he took such desperate chances, or words to that effect. He replied, that at every step since the mine had been started, the State Inspector of Mines had been consulted and all their work had the stamp of approval of the State. I asked him if he could produce that evidence, if called upon to do so, and he replied that he could. The facts herein stated are self evident.

I enclose map of their mine, showing how they were attempting to ventilate it. I also enclose one of my maps, from which their mine was copied, all except the bottom. The ventilation was intended to be carried out as laid in my map.

Respectfully,

JOHN G. MASSIE.

The reports made by the different investigators are substantially the same. As to the cause of the explosion all agree in attributing it to gas. That the mine was being operated in violation of the plain provisions of the mining law of this State no one seriously disputes. The records kept by the company itself show that the mine generated gas, furthermore that certain daily examinations were made by employes who did not have the certificate authorizing them to perform such work, and that for several days just preceding the explosion the mine had not been examined at all. Upon the strength of this testimony the Attorney General of the State secured several indictments against the company and its agents. The verdict of the coroner's jury sought to exonerate the company by holding that the disaster was due to a powder explosion, thus indicating a criminal purpose to blow up the mine. Considering the special precautions the company had taken to protect its property, this conclusion reflected upon the integrity of the jurymen and invited the suspicion that the men conducting the inquest had been selected for the purpose of shielding the company. There was certainly no evidence to warrant such a finding. To support such a theory it would be necessary for the jury to suppose that certain men were willing, in their desire to destroy the property of the company, to sacrifice their own lives. This imposes too heavy a tax on human credulity. To fully understand this phase of the case and the occasion for such a verdict, the explanation should be made that for nine months preceding the explosion the company had been engaged in a bitter conflict with the miner's union. While the initial cause of the trouble was a disagreement over the scale rate for that mine, following a change from day work to a tonnage basis, this was later lost sight of in the apparent determination of the company to defy and defeat the union. Mr. Joseph Leiter, the owner, a man of most positive character, denied the right of the union to interfere in any way with the management of his property. Having decided upon this course and appreciating the power and influence of the miners' unions, he immediately prepared for a seige. A stockade was constructed, and men heavily guarded were stationed around the premises. On the top of the tall tower a rapid firing gun was placed, also a searchlight, by means of which objects moving in the night could be seen within a radius of several miles. The method of protection was so complete as to make it impossible for any one to approach within a reasonable distance of the property, without being subject to the closest scrutiny. If the person was properly identified and vouched for he was permitted to enter. Notwithstanding this system of espionage the company's officials are represented as contending that some time during the night preceding the explosion, some maliciously disposed people eluded the guards, scaled the stockade, descended the mine, and exploded the powder magazine. It would seem that a mere statement of the facts is sufficient to disprove such a contention without attempting any argument to further expose the patent weakness of such a defense. The fact that a jury, in the absence of any investigation, would lend the influence of its verdict

to a statement of that kind, testifies not so much to the unreliable character of such agencies, as to the strong local control exercised by the company's officials in a community of that kind.

The investigation and reports of the several experts who were detailed to examine the premises are notably clear, strong and unanimous in the opinion that the explosion was the result of gas, which, on account of the impaired condition of the ventilating apparatus, had been allowed to accumulate in excessively dangerous quantities. While the judgment of the investigators is that the powder stored in the magazine and at other places in the mine intensified the power of the explosion, the increased damage from that source must have been comparatively slight. The exploding of forty or more kegs of powder in the face of such force would have no more effect than the throwing of a splinter into a raging furnace or the pop of a firecracker in the roar of a cannon.

In the report of the Seventh district, in which the mine was then located, appears quite a full description of the equipment of the Zeigler coal plant. Everything connected with it is more than up to date, and of a model type in every respect. The company has strong financial backing, and money has not been spared in the installation of modern improvements. It is but fair to say that particular care has been taken for the comfort and welfare of the employés. The homes of the miners in point of architecture and capacity are superior to the class of dwellings usually found in an exclusively mining village. These accommodations are furnished at reasonable rentals. A commodious brick school house, one of the best in the country, was erected by the company, at considerable expense. A hospital, with many modern facilities, is maintained on the premises, a specific sum being collected each month from the employés for its support. At the mine, adjoining the engine room, there has been constructed a large cement wash house for the convenience of the employés. It is supplied with hot and cold water, including lockers for the workmen's clothes. The manager, in conversation with the writer, explained that this and other arrangements for the comfort of its employés had been made, not because the law demanded them, but that ordinary considerations for the comfort of workingmen required them.

How striking the contrast between this statement and the general protest of mine owners against the passage of a law requiring that such facilities should be supplied at all coal mines in this State! It is a subject of sincere regret that a company equipped as it is, with so many laudable achievements to its credit, should have become involved in such a conflict or have felt compelled to resort to such forms of defense. The memory of Virden is still fresh. Stockades are not popular in Illinois. Men who are worth their salt will not work under guards. Private industry can never flourish in the face of a gun, and a victory, if won by such methods, has been purchased at too great a price.

The following summary presents the specific features of this report for the year:

## COAL IN ILLINOIS.

This is the twenty-fourth annual report of the statistics of the coal mining industry in Illinois, compiled by the Bureau of Labor Statistics, and is for the fiscal year ended June 30, 1905. The report embraces, in a general way, the same facts for the year that have appeared in former reports; so that comparisons can be made with any of the topics treated in previous reports.

The groundwork of all the conclusions reached in the summaries presented, is founded on the reports made to the Bureau by the several State inspectors. The facts produced have been obtained on schedules furnished by the inspectors to the operators and is the best and only authority for the particulars concerning the production of coal in the State.

## SUMMARY FOR THE YEAR ENDED JUNE 30, 1905.

Number of counties producing coal.....	56
Number of mines and openings of all kinds.....	990
New mines or old mines reopened during the year.....	168
Mines closed or abandoned since last report.....	110
Total output of all mines, in tons of 2,000 pounds.....	37,183,374
Number of shipping or commercial mines.....	397
Total output of shipping mines, tons.....	35,956,543
Number of mines in local trade only.....	593
Output of local mines, tons.....	1,226,831
Total tons of mine-run coal.....	9,248,558
Total tons of lump coal.....	16,819,321
Total tons of egg coal.....	1,716,219
Total tons of nut coal.....	2,036,152
Total tons of pea coal.....	6,247,511
Total tons of slack coal.....	1,115,613
Total tons shipped.....	31,667,073
Tons supplied to locomotives at the mines.....	1,178,237
Tons sold to local trade.....	2,600,808
Tons consumed (or wasted) at the plant.....	1,737,256
Average days of active operation for shipping mines.....	198
Average days of active operation for all mines.....	175
Average value per ton all grades at the mines.....	\$1.041
Average value per ton of mine-run coal at the mines.....	\$1.062
Average value per ton of lump coal at the mines.....	\$1.291
Average value per ton of egg coal at the mines.....	\$1.237
Average value per ton of nut coal at the mines.....	\$0.865
Average value per ton of pea or screenings coal at the mines.....	\$0.48
Average value per ton of slack coal at the mines.....	\$0.301
Aggregate home value of total product.....	\$38,689,858
Number of mines in which mining machines are used.....	78
Number of mining machines in use.....	784
Number of tons undercut by machines.....	8,202,066
Number of tons mined by hand.....	28,981,308
Average number of miners employed during the year.....	41,202
Average number of other employes underground.....	10,694
Average number of boys employed underground.....	1,540
Average number of employes above ground.....	5,794
Total employes.....	59,230
Number of men at work underground.....	53,436
Number at work on surface.....	5,794
Average price paid per gross ton for hand mining, shipping mines.....	\$0
Average price paid per gross ton for machine mining.....	



Number of kegs of powder used for blasting coal .....	938,500
Number of kegs of powder used for other purposes .....	4,158
Number of men accidentally killed .....	199
Number killed inside of the mines .....	197
Number killed outside of the mines .....	2
Number of wives made widows .....	102
Number of children left fatherless .....	231
Number of men injured so as to lose a month or more of time .....	535
Number of gross tons mined to each life lost .....	186,851
Number of employes to each life lost .....	298
Number of deaths per 1,000 employed .....	3.4
Number of gross tons mined to each man injured .....	69,502
Number of employes to each man injured .....	111

The number of counties producing coal this year is 56, this is two more than was reported last year; the additional counties are Putnam and White.

There are 990 mines, or openings of all kinds reported, this is a gain of 58 mines over the number shown last year; of the total number 397 are shipping mines, and 593 are styled local mines, their output being used entirely to supply local trade. Of the increased number of mines 17 are of the shipping class and 41 engaged in the local trade. The total production of coal was 37,183,374 tons, being a gain over last year of 105,477 tons. The aggregate value of the total product at the mines was \$38,689,858, being \$1,041 per ton.

The shipping mines produced 35,956,543 tons, or 96.7 per cent of the total product; this had an aggregate value at the mines of \$36,711,630 or \$1.021 per ton. The total number of persons employed was 59,230, this is an increase of 4,456 or 8.14 per cent over last year.

The average number of days of active operation of the shipping mines was 198, this is 15 days less than shown for last year.]

#### CLASSIFICATION OF MINES.]

The presentation shown in the following table is that of the number of mines, men and tons, by districts and for the State, the same facts are also given both for the shipping and local mines:

TABLE 1—*Mines, Men and Tons, Shipping and Local Mines by Districts, 1905.*

DISTRICT.	TOTAL.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	89	8,157	3,396,807	39	7,716	3,252,282	50	441	144,525
Second .....	178	7,761	3,212,728	29	6,932	2,942,229	149	829	270,499
Third .....	262	5,397	3,107,379	55	4,336	2,774,498	207	1,061	332,881
Fourth .....	101	7,441	4,477,632	45	7,050	4,303,295	56	391	174,337
Fifth .....	112	10,175	7,435,952	56	9,869	7,329,825	56	306	106,127
Sixth .....	127	10,636	8,506,929	92	10,401	8,392,443	35	235	114,483
Seventh .....	121	9,663	7,045,947	81	9,439	6,961,971	40	224	83,976
The State.	990	59,230	37,183,374	397	55,743	35,956,543	593	3,487	1,226,831

The percentages of mines, men and tons, for the State and for the shipping and local mines, are shown in the table following by districts:

TABLE 2—*Percentages of Mines, Men and Tons, all Mines, and of Shipping and Local Mines, 1905.*

DISTRICT.	PERCENTAGES.								
	ALL MINES.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First.....	8.99	13.77	9.13	43.82	94.59	95.75	56.18	5.41	4.25
Second .....	17.98	13.10	8.64	16.29	89.32	91.58	83.71	10.68	8.42
Third. ....	26.47	9.11	8.36	20.99	80.34	89.29	79.01	19.66	10.71
Fourth .....	10.20	12.56	12.04	44.55	94.75	96.11	55.45	5.25	3.89
Fifth .....	11.31	17.18	20.00	50.00	96.99	98.57	50.00	3.01	1.43
Sixth.....	12.83	17.96	22.88	72.44	97.99	98.65	27.56	2.21	1.35
Seventh .....	12.22	16.32	18.95	66.94	97.68	98.81	33.06	2.32	1.19
The State.....	100.00	100.00	100.00	40.10	94.11	96.70	59.90	5.89	3.30

The shipping and local mines each have about the same proportion to the total number of mines as was shown for last year. The number of shipping mines has increased 17 or 4.47 per cent; this increase is shown in the second, fifth, sixth and seventh districts, while there has been a slight decrease in the first and fourth districts, the third district has the same number as last year. As to mines, men and tons, it will be seen that the shipping class represents only 40 per cent of the mines, while they employed 94 per cent of the men and produced 97 per cent of the product.

The increase or decrease in the number of mines, men and tons, is shown in a comparative table for the year 1904 and 1905 as follows:

TABLE 3—*Mines, Men and Tons for the Years 1904 and 1905, with the Increase or Decrease by Districts.*

DISTRICTS.	TOTALS—1904.			TOTALS—1905.			INCREASE (+) OR DECREASE (—) FOR YR. 1905.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First .....	88	8,038	3,450,315	89	8,157	3,396,807	+ 1	+119	— 53,508
Second .....	171	7,362	3,322,490	178	7,761	3,212,728	+ 7	+399	—109,762
Third .....	238	4,808	3,058,414	262	5,397	3,107,379	+24	+589	+ 48,965
Fourth .....	96	7,293	5,142,786	101	7,441	4,477,632	+ 3	+148	—665,154
Fifth .....	102	9,541	7,280,287	112	10,175	7,435,952	+10	+636	+155,665
Sixth.....	117	9,665	8,634,726	127	10,636	8,506,929	+10	+971	—127,797
Seventh .....	120	8,067	6,188,879	121	9,663	7,045,947	+ 1	+1,596	+357,068
The State....	932	54,774	37,077,897	990	59,230	37,183,374	+56	+4,458	+105,477

All of the districts show an increase in the number of mines and men, while only the third, fifth and seventh districts show an increase in the output, all of the other districts showing a decrease, the largest being in the fourth district.

Much the largest increase in the tonnage is shown in the seventh district.

### SHIPPING AND LOCAL MINES.

The totals, mines, men and tons, are given for 13 years in the table following:

TABLE 4—*Mines, Men and Tons, Shipping and Local Mines, for Thirteen Years.*

YEAR.	TOTAL.			SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	788	35,330	19,949,564	310	28,737	19,257,682	478	6,593	691,882
1894.....	836	38,477	17,113,576	319	31,243	16,106,613	517	7,234	1,006,963
1895.....	874	38,630	17,735,864	319	31,174	16,578,890	555	7,456	1,156,974
1896.....	901	37,032	19,786,626	330	28,185	18,263,056	571	8,847	1,523,570
1897.....	853	33,788	20,072,758	310	31,322	19,386,573	543	2,466	686,185
1898.....	881	35,026	18,599,299	329	32,297	17,655,561	552	2,729	943,738
1899.....	889	36,991	23,434,445	323	34,307	22,531,356	566	2,684	903,089
1900.....	920	39,384	25,153,929	323	36,298	24,056,996	597	3,086	1,096,933
1901.....	915	44,143	26,635,319	331	40,926	25,526,816	584	3,217	1,108,503
1902.....	915	46,005	30,021,300	332	42,807	28,824,750	583	3,198	1,196,550
1903.....	933	49,814	34,955,400	353	46,494	33,676,537	580	3,320	1,278,863
1904.....	932	54,774	37,077,897	380	51,384	35,779,517	552	3,390	1,298,380
1905.....	990	59,230	37,183,374	397	55,743	35,956,543	593	3,487	1,228,831
Increase .....	202	23,840	17,233,810	87	27,008	16,698,861	115	*3,166	534,949
Percentages of increase..	25.63	67.36	86.39	28.07	93.98	86.71	24.06	*47.58	77.32

\*Decrease.

Referring to the first three columns it will be seen that, for the past seven years, there has been a gradual increase in the number of men employed and the number of tons of coal produced; while the number of mines has varied slightly from year to year, this year shows the largest number ever reported.

During these seven years the increase in the number of men and the number of tons produced has been very nearly parallel; the number of men has increased 60.12 per cent and the number of tons 58.67 per cent.

Observing the columns of the same table under the heading of shipping mines, it will be found that, for the past seven years, the number of this class of mines has increased 22.91 per cent; the number of men 62.48 per cent, and the tonnage 59.58 per cent. During the same years the mines in the local trade have increased 5.11 per cent, the number of men 29.92 per cent, and the tonnage 35.85 per cent. Attention is directed to the two bottom lines of the table; here is shown for the 13 years the increase in the number of mines, men and tons, with percentages in the different classifications; the only decrease shown is in the number of men employed at the local mines. Regarding the operations of the two classes of mines, which are observed in all these exhibits, the following table presents the mines, men and tons by percentages for 13 years:

TABLE 5—*Mines, Men and Tons, With Percentages of Shipping and Local Mines for Thirteen Years.*

YEARS.	TOTALS—ALL MINES.			PERCENTAGES.					
				SHIPPING.			LOCAL.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	788	35,390	19,949,564	39.34	81.20	96.53	60.66	18.80	3.47
1894.....	836	38,477	17,113,576	38.16	81.20	94.10	61.84	18.80	5.90
1895.....	874	38,630	17,735,864	36.50	80.70	93.48	63.10	19.30	6.52
1896.....	901	37,032	19,786,626	36.62	76.11	96.26	63.38	23.89	3.74
1897.....	853	33,788	20,072,758	36.38	92.72	96.53	63.62	7.28	3.47
1898.....	881	35,026	18,599,299	37.49	92.30	94.93	62.51	7.70	5.07
1899.....	889	36,991	23,434,445	36.33	92.74	96.15	63.67	7.26	3.85
1900.....	920	39,384	25,153,929	35.11	92.16	95.64	64.89	7.84	4.36
1901.....	915	44,143	26,635,319	36.17	92.71	95.84	63.83	7.29	4.16
1902.....	915	46,005	30,021,300	36.28	93.05	96.01	63.72	6.95	3.99
1903.....	933	49,814	34,955,400	37.83	93.34	96.34	62.17	6.66	3.66
1904.....	932	54,774	37,077,897	40.77	93.81	96.50	59.23	6.19	3.50
1905.....	990	59,230	37,183,374	40.10	94.11	96.70	59.90	5.89	3.30

The mines of the shipping class show a gradual increase in number for the past five years; this year, compared with the whole number of mines in the State, the number of shipping mines is about two-thirds of one per cent less than last year. However, for this year, the showing is that the shipping mines are only 40 per cent of all the mines, but employed 94 per cent of all the men and produced

97 per cent of the tonnage. The record of the output of the shipping mines for the 13 years is set forth in the following table by districts:

TABLE 6—*Percentage of the Tonnage of Shipping Mines of Each District, and of the State, for Thirteen Years.*

YEAR.	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1893 .....	97.2	88.8	93.1	98.9	98.6	.....	.....	96.53
1894 .....	93.8	83.0	91.7	98.8	93.7	.....	.....	94.10
1895 .....	93.7	86.8	90.6	99.0	91.3	.....	.....	93.48
1896 .....	96.2	92.6	75.9	95.1	99.2	98.7	96.6	96.26
1897 .....	97.29	92.99	78.91	95.20	99.32	98.55	97.82	96.53
1898 .....	91.35	88.61	78.59	93.69	99.12	98.48	98.11	94.93
1899 .....	94.73	92.53	79.93	95.43	98.81	98.57	98.52	96.15
1900 .....	95.81	89.14	87.18	95.47	98.39	98.84	93.47	95.64
1901 .....	96.68	89.38	85.98	94.65	98.65	98.64	97.93	95.84
1902 .....	94.93	91.89	85.54	95.36	98.82	98.73	98.37	96.01
1903 .....	94.78	92.16	85.65	95.83	98.86	98.98	95.96	96.34
1904 .....	96.20	91.38	88.51	95.31	98.58	98.79	98.65	96.50
1905 .....	95.75	91.58	89.29	96.11	98.57	98.65	98.81	96.70

But little variation will be seen in the output of the shipping mines from year to year in the several districts; compared with last year the gain or loss does not reach one per cent in any of the districts.

#### GROUPING OF MINES.

The grouping of the mines of the State are shown in the following table:

TABLE 7—*Grouping of Mines by Tonnage and Districts—1905.*

DISTRICT.	TONNAGE AND MINES PRODUCING—											
	Under 1,000.		1,000 and under 10,000.		10,000 and under 50,000.		50,000 and under 100,000.		100,000 and under 200,000.		200,000 and over.	
	̄N	Tons.	̄N	Tons.	̄N	Tons.	̄N	Tons.	̄N	Tons.	̄N	Tons.
First .....	20	8,089	33	112,615	11	226,010	10	761,508	14	2,066,715	1	221,870
Second .....	78	32,189	77	238,595	8	151,361	4	268,974	3	419,573	8	2,102,037
Third .....	138	53,705	74	265,687	29	730,142	14	981,685	5	626,089	2	450,071
Fourth .....	18	9,482	41	134,430	18	393,470	4	281,466	11	1,361,938	9	2,296,846
Fifth .....	35	13,384	22	62,907	10	276,758	11	810,058	22	3,108,159	12	3,164,686
Sixth .....	11	4,775	27	94,233	40	1,099,215	19	1,291,121	18	2,501,847	12	3,515,738
Seventh .....	21	7,806	25	84,928	31	975,609	21	1,473,221	15	2,073,769	8	2,430,544
The State.	321	129,430	299	991,394	147	3,852,565	88	5,868,103	88	12,158,090	52	14,181,792

Here are six classes of the mines, by districts, grouped according to tonnage. These may be subdivided into two classes; those that produce less than 50,000 tons, and those having an output of 50,000 tons and over. The mines whose output was less than 50,000 tons each, number 767 or 77.47 per cent of all the mines, and produced 4,975,389 tons or 13.38 per cent of the total tonnage. This leaves 223 or 22.53 per cent of all the mines, but yielding 32,207,985 tons, or 86.62 per cent of all the coal produced.

The further comparison of the two classes of mines and their output is presented, by districts in the following table:

TABLE 8—*Percentages of Mines and Tons in Two Specified Classes, by Districts.*

DISTRICT.	MINES PRODUCING—			
	LESS THAN 50,000 TONS.		OVER 50,000 TONS.	
	Mines.	Tons.	Mines.	Tons.
First .....	71.91	10.21	28.09	89.79
Second .....	91.57	13.14	8.43	86.86
Third .....	91.98	33.78	8.02	66.22
Fourth .....	76.24	12.00	23.76	88.00
Fifth.....	59.82	4.75	40.18	95.25
Sixth .....	61.42	14.09	38.58	85.91
Seventh .....	63.64	15.16	36.36	84.84
The State.....	77.47	13.38	22.53	86.62

The largest percentages of mines producing less than 50,000 tons are shown in the second and third districts, while much the largest percentage of tons produced is to be seen in the third district.

Referring to the class of mines producing over 50,000 tons, both the second and third districts are much below any of the other districts. All of the mines, of this class, in each district, however, produce much the largest percentage of the output.

The table following presents the final showing of this classification:

TABLE 9—*Classification of Mines as to Tonnage, with Percentages of Mines and Tons—1905.*

MINES PRODUCING—	Number of mines.	TONNAGE.	PERCENTAGE OF	
			Mines.	Tons.
Less than 1,000 tons .....	321	129,430	32.43	.35
One thousand and less than 10,000 tons .....	299	993,394	30.20	2.67
Ten thousand and less than 50,000 tons .....	147	3,852,565	14.85	10.36
Fifty thousand and less than 100,000 tons .....	83	5,868,103	8.38	15.78
One hundred thousand and less than 200,000 tons....	88	12,158,090	8.89	32.70
Two hundred thousand tons and over .....	52	14,181,792	5.25	38.14

By dividing this grouping of mines, and noting the number producing less than 10,000 tons each, it is found that these mines represent 62.63 per cent of all the mines, but yield only 3.02 per cent of the output, thus leaving 37.37 per cent of the mines that furnish 96.98 per cent of all the coal output.

The different classes of mines as indicated in previous tables are shown in the following table for 23 years.

TABLE 10—*Number of Mines in Specified Groups of Tonnage for a Series of Twenty-three Years.*

YEAR.	NUMBER OF MINES PRODUCING.						Total mines.
	Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.	
1883.....	209	233	133	39	10	15	639
1884.....	262	273	148	38	16	4	741
1885.....	286	290	143	40	13	1	778
1886.....	216	280	135	44	11	3	789
1887.....	320	278	141	42	18	2	801
1888.....	327	272	151	47	20	5	822
1889.....	321	316	139	55	20	3	854
1890.....	398	301	155	54	24	4	936
1891.....	403	260	161	52	37	6	918
1892.....	332	239	151	65	46	6	839
1893.....	282	232	140	75	47	12	788
1894.....	312	252	161	61	44	6	836
1895.....	319	276	145	61	45	9	855
1896.....	330	280	128	63	45	16	862
1897.....	346	250	120	79	41	17	853
1898.....	351	244	151	86	42	7	881
1899.....	346	261	123	78	56	25	889
1900.....	340	295	123	70	65	27	920
1901.....	313	308	124	79	58	33	915
1902.....	314	263	152	76	72	38	915
1903.....	313	293	120	75	87	45	933
1904.....	301	275	140	72	98	46	932
1905.....	321	299	147	83	88	52	990
Increase in 23 years..	112	66	14	44	78	37	351

The increase in the number of mines producing less than 50,000 tons, for the 23 years, has been 192 or 33.39 per cent, while the increase in the number of mines producing 50,000 tons and over has been 159 or 248.44 per cent.

The percentages of the six classes of mines for the 23 years are shown in the following table:

TABLE 11—*Percentages of Mines in Specified Grouping of Tonnage for a Series of Twenty-three Years.*

YEAR.	Total Mines.	PERCENTAGES OF MINES PRODUCING.					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1883 .....	639	32.71	36.47	20.81	6.10	1.56	2.35
1884 .....	741	35.36	36.84	19.97	5.13	2.16	.54
1885 .....	778	36.76	37.27	18.38	5.14	2.32	.13
1886 .....	789	40.05	35.49	17.11	5.58	1.39	.38
1887 .....	801	39.95	34.71	17.60	5.24	2.25	.25
1888 .....	822	39.79	33.09	18.37	5.71	2.43	.61
1889 .....	854	37.59	37.00	16.28	6.44	2.34	.35
1890 .....	936	42.52	32.16	16.56	5.77	2.56	.43
1891 .....	918	43.79	28.32	17.54	5.67	4.03	.65
1892 .....	839	39.69	29.44	17.76	7.03	4.89	1.19
1893 .....	788	35.91	29.44	16.24	10.92	5.71	1.78
1894 .....	836	37.08	29.07	19.62	8.25	5.26	.72
1895 .....	859	36.43	33.29	16.65	7.33	5.25	1.05
1896 .....	874	38.90	30.66	14.88	8.35	5.61	1.60
1897 .....	853	40.56	29.31	14.07	9.26	4.81	1.99
1898 .....	881	39.84	27.70	17.14	9.76	4.77	.79
1899 .....	889	38.92	29.36	13.84	8.66	6.41	2.81
1900 .....	920	36.96	32.07	13.37	7.61	7.06	2.93
1901 .....	915	34.21	33.66	13.55	8.63	6.34	3.61
1902 .....	915	34.32	28.74	16.61	8.31	7.87	4.15
1903 .....	933	33.55	31.40	12.86	8.04	9.33	4.82
1904 .....	932	32.30	29.50	15.02	7.73	10.51	4.94
1905 .....	990	32.43	30.20	14.85	8.38	8.89	5.25
Percentages of increase 23 yrs. ....		53.59	28.32	10.53	112.82	780.00	246.67

The final line in this table gives the percentage of increase in each of the six classes of mines for the 23 years. Notably is the large increase in each of the three classes whose annual output is 50,000 tons and over.



The total output in tons, of the six classes of mines shown, for 14 years will be found in the following table:

TABLE 12—*Grouping of Mines by Tonnage for a Series of Fourteen Years.*

YEAR.	TONNAGE OF MINES PRODUCING—					
	Under 1,000 tons.	1,000 and under 10,000.	10,000 and under 50,000.	50,000 and under 100,000.	100,000 and under 200,000.	200,000 and over.
	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1892.....	147,777	1,058,078	4,134,259	4,293,472	5,855,091	2,373,599
1893.....	121,636	726,199	3,132,499	6,179,487	6,291,965	3,497,778
1894.....	137,507	702,623	4,022,545	4,742,257	6,035,094	1,473,550
1895.....	151,430	866,019	3,609,918	4,416,969	6,346,937	2,344,591
1896.....	141,690	807,148	3,265,822	5,049,694	6,557,545	3,962,435
1897.....	150,445	773,526	3,162,713	5,693,193	5,778,374	4,514,507
1898.....	161,622	692,149	3,785,962	6,351,513	5,898,596	1,709,457
1899.....	137,582	790,948	2,877,117	5,618,924	7,443,023	6,566,851
1900.....	154,318	969,424	3,255,570	5,009,326	8,995,963	6,769,328
1901.....	227,419	838,989	3,393,827	5,795,953	8,008,897	8,370,234
1902.....	161,058	763,597	3,694,890	5,376,350	9,923,538	10,101,867
1903.....	126,678	871,342	3,396,343	5,445,195	12,387,437	12,728,405
1904.....	126,397	934,042	3,602,660	5,200,551	13,753,975	13,460,272
1905.....	129,403	993,394	3,852,565	5,868,103	12,158,090	14,181,792
Increase (+) or decrease (—) in 14 years...	—13,374	—64,684	—281,694	+1,574,631	+6,302,999	+11,808,193

The last line in this table gives the increase or decrease in each of the six classes for 14 years, or the difference in the tonnage of each class as shown for the year 1892, and that for 1905.

It is here shown that the tonnage of each of the three classes of mines producing less than 50,000 tons has decreased, while a very noted increase is shown in the increased tonnage of the mines, where the annual output has been 50,000 tons and over. The last line in the table presents the increase and decrease in tons of each class for the past 14 years.

The foregoing is amplified by the percentages to be found in the following table:

TABLE 13—*Percentages of Tons Produced by Specified Grouping of Tonnage for Fourteen Years.*

YEARS.	Total tons.	PERCENTAGE OF TONS PRODUCED BY MINES PRODUCING—					
		Under 1,000 tons.	1,000 and under 10,000 tons.	10,000 and under 50,000 tons.	50,000 and under 100,000 tons.	100,000 and under 200,000 tons.	200,000 tons and over.
1892.....	17,862,276	.82	5.92	23.15	24.04	32.78	13.29
1893.....	19,949,561	.61	3.64	15.70	30.98	31.54	17.53
1894.....	17,113,576	.80	4.11	23.50	27.71	35.26	8.61
1895.....	17,735,864	.85	4.88	20.35	24.91	33.79	13.22
1896.....	19,784,334	.72	4.06	16.51	25.52	33.14	20.03
1897.....	20,072,758	.75	3.85	15.75	28.37	28.79	22.49
1898.....	18,599,299	.87	3.72	20.36	34.15	31.71	9.19
1899.....	23,434,445	.59	3.98	12.28	23.97	31.76	28.02
1900.....	25,153,929	.61	3.86	12.94	19.92	35.76	26.91
1901.....	26,635,319	.85	3.15	12.74	21.76	30.07	31.43
1902.....	30,021,300	.54	2.54	12.31	17.90	33.06	33.65
1903.....	34,955,400	.36	2.49	9.72	15.58	35.44	36.41
1904.....	37,077,897	.34	2.52	9.72	14.03	37.09	36.30
1905.....	37,183,374	.35	2.67	10.36	15.78	32.70	38.14
Percentage of increase (+) or decrease (—) in 14 years.....	+51.96	—12.43	—6.11	—6.81	+36.68	+107.65	+497.48

Observing the last line in this table it will be seen that the total tonnage of coal produced has increased 52 per cent this year, over that of 1892, while in the classification it is noticable that the mines whose output is less than 50,000 have all decreased; the class of less than 1,000 tons shows the largest decrease. Combining the three classes showing a production of less than 50,000 tons the decrease for the 14 years has been 93.17 per cent. The two classes producing 100,000 tons and 200,000 tons and over, show much the largest increase, the latter reaching nearly 500 per cent.

## COLLIERIES OF LARGEST OUTPUT.

The coal mines of the State, which have each produced 100,000 tons and over and those producing 200,000 and over during the year are shown in the two tables following:

TABLE 14—*Mines from which more than 100,000 Tons and less than 200,000 Tons of Coal have been delivered during the Year 1905.*

Rank.	COMPANIES.	Location.	Tons.
1	Muddy Valley Mining and Mfg. Co.....	Hallidayboro.....	198,211
2	Capital Cooperative Coal Co.....	Springfield.....	195,877
3	Kelley Coal Co., Himrod.....	Himrod.....	190,777
4	Chicago, Wilmington & Vermilion Coal Co. No. 2...	South Wilmington.....	190,123
5	Odin Coal Co., No. 1.....	Odin.....	188,821
6	Chicago-Herrin Coal Co.....	Herrin.....	186,748
7	LaSalle County Carbon Coal Co. No. 1.....	LaSalle.....	178,681
8	Cardiff Coal Co. No. 2.....	Cardiff.....	177,529
9	Empire Coal Co. No. 3.....	Gilchtist.....	174,780
10	Western Coal Mining Co.....	Bush.....	174,692
11	Illinois Collieries Co. No. 2.....	Auburn.....	173,756
12	Madison Coal Co. No. 5.....	Mt. Olive.....	172,764
13	Consolidated Coal Co. No. 7.....	Staunton.....	169,657
14	Springfield Coal Mining Co. No. 4.....	Springfield.....	166,640
15	Chicago & Big Muddy Coal & Coke Co. No. 1.....	Marion.....	166,262
16	Braceville Coal Co. No. 5.....	Braceville.....	164,224
17	Peabody Coal Co. No. 2.....	Marion.....	164,214
18	LaSalle County Carbon Coal Co., Union.....	LaSalle.....	162,602
19	Sandoval Coal and Mining Co. No. 1.....	Salem.....	161,737
20	Dering Coal Co., No. 25.....	Paisley.....	161,313
21	Royal Colliery Co.....	Viriden.....	160,563
22	Muren Coal and Ice Co.....	Belleville.....	159,944
23	Whitebreast Fuel Co. of Illinois, "F".....	Dunfermline.....	158,500
24	Superior Coal & Mining Co. No. 1.....	Belleville.....	158,116
25	Royal Coal and Mining Co. No. 1.....	Belleville.....	149,550
26	Oglesby Coal Co. No. 1.....	Oglesby.....	148,552
27	LaSalle County Carbon Coal Co., LaSalle.....	LaSalle.....	147,730
28	Christian County Coal Co.....	Taylorville.....	147,299
29	Jefferson Coal Co.....	Springfield.....	146,000
30	Hillsboro Coal Co.....	Hillsboro.....	145,838
31	Big Muddy Coal and Iron Co., Harrison.....	Murphysboro.....	145,773
32	Consolidated Coal Co., Abbey No. 3.....	Collinsville.....	144,527

Table 14—Continued.

Rank.	COMPANIES.	Location.	Tons.
33	Consolidated Coal Co., Heinz Bluff.....	Collinsville.....	143,297
34	Mt. Olive & Staunton Coal Co. No. 2.....	Staunton.....	142,673
35	Springfield Coal Mining Co. 1.....	Springfield.....	142,278
36	Trenton Coal Co. No. 1.....	Trenton.....	141,962
37	Springfield Coal Mining Co. No. 3.....	Springfield.....	141,209
38	Carterville District Coal Co. No. 6.....	Marion.....	141,067
39	Greenridge Mining Co.....	Greenridge.....	140,229
40	Joseph Taylor Coal Co.....	O'Fallon.....	139,196
41	LaSalle County Carbon Coal Co., Rockwell.....	LaSalle.....	137,665
42	Acme Coal Co., Acme.....	Streator.....	137,046
43	Woodside Coal Co.....	Springfield.....	137,000
44	Star Coal Co. No. 5.....	Streator.....	136,687
45	Sangamon Coal Co.....	Springfield.....	136,320
46	Kerns-Donneiwald Coal Co. No. 1.....	Worden.....	135,910
47	Coal Valley Mining Co. No. 2.....	Sherrard.....	134,618
48	Penwell Coal Mining Co. Penwell.....	Pana.....	134,502
49	West End Coal Co.....	Springfield.....	134,081
50	Big Four Coal Co. No. 5.....	Carbon Hill.....	134,014
51	Big Creek Coal Co. No. 2.....	St. David.....	132,982
52	Willis Coal Mining Co. No. 6.....	Percy.....	131,517
53	Joseph Taylor Coal Co., Taylor.....	O'Fallon.....	131,364
54	Illinois Collier Co.....	Sorento.....	129,815
55	Walnut Hill Coal Co., Avery.....	Belleville.....	129,798
56	McLean County Coal Co. No. 1.....	Bloomington.....	129,000
57	Chicago, Wilmington & Vermilion Coal Co. No. 1....	Streator.....	127,966
58	Missouri and Illinois Coal Co. No. 4.....	Willisville.....	127,499
59	Clark Coal and Coke Co. "A".....	Peoria.....	125,120
60	Illinois Collieries Co. No. 5.....	Virden.....	123,735
61	Big Four Coal Co. No. 3.....	Carbon Hill.....	122,211
62	Consolidated Coal Co. No. 14.....	Staunton.....	119,435
63	Pana Coal Co. No. 1.....	Pana.....	118,959
64	Spaulding Coal Co. No. 2.....	Bissell.....	118,604
65	Newbent Coal Co., N. mine.....	Pana.....	117,335
66	Consolidated Coal Co.....	Breese.....	115,829
67	Edwardsville Coal Co. No. 3.....	Edwardsville.....	114,966
68	Davenport Coal Co.....	Ledford.....	113,682
69	Crown Coal & Iron Co. No. 4.....	Belleville.....	113,370
70	Wenona Coal Co. No. 1.....	Wenona.....	110,175

Table 14—Concluded.

Rank.	COMPANIES.	Location.	Tons.
71	Williamson Co. Coal Co .....	Johnson City .....	109,562
72	Peabody Mining Co. ....	Sherman .....	109,335
73	Citizens Coal M. Co. No. 1.....	Lincoln .....	108,335
74	Big Muddy Coal & Iron Co. No. 8.....	Clifford .....	107,861
75	Wabash Coal Co. No. 1.....	Dawson .....	107,044
76	Norris Coal Mining Co.....	Norris .....	106,000
77	Assumption Coal Mining Co.....	Assumption .....	105,688
78	Electric Coal Co., Electric .....	Danville .....	105,104
79	Cantrall Co-operative Coal Co.....	Cantrall .....	103,493
80	Greenview Coal Mining Co .....	Greenview .....	103,487
81	Zeigler Coal Co. No. 1.....	Zeigler .....	103,223
82	Citizens Coal Mining Co. "A".....	Springfield .....	103,038
83	Johnson City & Big Muddy Coal & Mining Co.....	Johnson City .....	103,027
84	Moweaqua Coal Mining & Manufacturing Co. No. 1..	Moweaqua .....	102,534
85	Roanoke Coal & Mining Co. No. 1.....	Roanoke .....	102,395
86	Matheson & Hegeler Zinc Co .....	LaSalle .....	101,685
87	DeCamp Mining Co. No. 1 .....	Staunton .....	100,972
88	Carterville Coal Co. "A".....	Carterville .....	100,431
Total tons .....			12,158,090

This table gives the operators and locations of the mines producing 100,000 tons and less than 200,000, during the year. The number in this class of mines is 10 less than last year, the output being 1,595,885 tons less. The total number in this class for the year is 88 with an output of 12,158,090 tons. The next table also gives the names of the operators and locations of mines, and, in addition, the number of days that each mine was in operation, the depth of the coal below the surface, the thickness of the seam and the manner of working, by hand or machine, or by both.

TABLE 15—*Mines from which more than 200,000 Tons of Coal have been delivered during the Year 1905.*

Rank.	COMPANIES.	Location.	Days in Operation.	Depth of Mine.	Thickness of Seam.	How Worked.	Tons.
1	Big Muddy Coal & Iron Co. No 7.....	Herrin .....	282	140	9	H.	447,287
2	Pittenger & Davis M.& M.Co.Nos. 3 & 4	Centralia .....	234	637	6	H.	440,143
3	Chicago & Carterville Coal Co. No. 1...	Herrin .....	254	180	9	H-M.	402,088
4	St. Louis & O'Fallon Coal Co. No. 1...	East St. Louis..	200	100	6	H.	389,308
5	Chicago, Wil. & Ver. Coal Co.....	Thayer .....	193	292	7.11	M.	380,732
6	Devlin Coal Co. No. 1.....	Toluca .....	282	512	2.10	H.	379,974

Table 15—Continued.

Rank.	COMPANIES.	Location.	Days in Operation	Depth of Mine.	Thickness of Seam.	How Worked.	Tons.
7	Sunnyside Coal Co. No. 1.....	Herrin.....	239	143	9	H.	371,225
8	Madison Coal Co. No. 6.....	Divernon.....	197	318	8	M.	341,062
9	Illinois Collieries No. 1.....	Virden.....	207	320	7.6	M.	340,736
10	Dering Coal Co. No. 1.....	Westville.....	250	210	7	H.	334,941
11	Donk Bros. Coal & Coke Co. No. 2.....	Collinsville.....	204	245	7	M.	329,135
12	Mt. Olive & Staunton Coal Co. No. 1....	Staunton.....	209	292	6	M.	323,371
13	Peabody Coal Co. No. 3.....	Marion.....	222	102	9	H-M.	319,548
14	Donk Bros. Coal & Coke Co. No. 1.....	Collinsville.....	220	185	7	H.	315,091
15	Kelley Coal Co. No. 4.....	Westville.....	177	90	7	H.	301,536
16	Donk Bros. Coal & Coke Co. No. 3.....	Troy.....	202	280	5	H.	290,793
17	Superior Coal Co. No. 1.....	Gillespie.....	247	348	8	M.	282,711
18	Illinois Collieries Co. No. 8.....	Springfield.....	225	250	5.9	H.	278,426
19	Kelley Coal Co. No. 3.....	Westville.....	178	212	7	H.	273,592
20	Illinois 3d Vein Coal Co. No. 1.....	Ladd.....	279	465	3.6	H.	271,068
21	Muren Coal & Ice Co. No. 2.....	New Baden.....	245	324	8	M.	269,344
22	Kelley Coal Co.—Pawnee.....	Grape Creek....	203	90	8	H.	262,694
23	Spring Valley Coal Co. No. 2.....	Spring Valley..	193	342	3.6	H.	260,940
24	Centralia M. & M. Co. No. 2.....	Centralia.....	226	576	6	H.	254,248
25	Breese-Trenton Mg. Co. No. 1.....	Breese.....	283	400	7	H.	250,912
26	Spring Valley Coal Co. No. 4.....	Spring Valley..	269	410	3.6	H.	245,658
27	Kelley Coal Co. No. 2.....	Kelleyville.....	188	210	7	H.	243,002
28	Spring Valley Coal Co. No. 3.....	Spring Valley..	187	481	3.6	H.	242,340
29	Willis Coal & Mining Co. No. 1.....	Willisville.....	250	80	6	H-M.	241,474
30	Springfield Coal Mining Co. No. 5.....	Springfield....	217	250	5.9	H.	239,920
31	St. Louis & Big Muddy Coal Co.—Dawes	Dewmain.....	245	90	9	H.	239,643
32	Marquette 3d Vein Coal Co. No. 1.....	Marquette.....	225	302	3.6	H.	237,323
33	Springfield Coal Mining Co. No. 2.....	Springfield....	187	232	5.9	H.	236,232
34	Maplewood Coal Co. No. 1.....	Peoria.....	267	85	4.4	H.	235,943
35	Spring Valley Coal Co. No. 1.....	Spring Valley..	173	345	3.6	H.	235,573
36	Latham Coal Co. No. 1.....	Lincoln.....	185	290	5	H.	229,966
37	Spring Valley Coal Co. No. 5.....	Spring Valley..	232	420	3.6	H.	229,141
38	Springfield Coal Mining Co. No. 6.....	Taylorville.....	190	462	7.6	H.	229,080
39	Victor Coal Co.....	Pawnee.....	146	324	7.6	H.	228,896
40	Lumaghi Coal Co. No. 2.....	Collinsville.....	216	170	7	M.	225,277
41	Chicago, Wil. & Ver. Coal Co. No. 1....	S. Wilmington..	186	195	3.3	H.	221,870
42	Consolidated Coal Co. No. 6.....	Staunton.....	221	322	6	M.	219,826
43	Madison Coal Co. No. 4.....	Glen Carbon....	157	130	6.6	M.	215,276

Table 15—Concluded.

Rank.	COMPANIES.	Location.	Days in operation.	Depth of mine.	Thickness of seam.	How worked.	Tons.
44	Monmouth Coal Co. No. 1.....	Brereton .....	228	125	4.3	H.	214,123
45	Madison Coal Co. No. 2.....	Glen Carbon....	168	110	6.6	M.	212,840
46	Dering Coal Co. No. 2.....	Westville .....	250	215	6	H.	212,225
47	Consolidated Coal Co. No. 10.....	Mt. Olive.....	208	431	8	M.	210,837
48	Kelley Coal Co. No. 5.....	Grape Creek....	179	90	7	H.	209,780
49	White Walnut Coal Co.....	Pinckneyville ..	261	90	6	H.	208,873
50	Consolidated Coal Co. No. 8.....	Mt. Olive.....	208	410	8	M.	204,161
51	Superior Coal Co. No. 2.....	Gillespie.....	247	324	8	M.	201,127
52	Big Muddy Coal & Iron Co.....	Murphysboro...	221	150	6.3	H-M.	200,406
	Total tons.....	.....	.....	.....	.....	.....	14,181,792

The number of this class of mines for the year is 52, which is six more than last year, with a total output of 14,181,972 tons, which is 721,520 tons more than the 46 mines of the same class last year. Combining the two classes of these large producing mines, we have 140 mines with an output of 26,339,882 tons. These represent 35.26 per cent of the shipping mines, and 73.23 per cent of the tonnage of the same mines.

The following table shows these mines with their tonnage for 10 years:

TABLE 16—*Mines Producing 100,000 Tons and Less than 200,000 Tons, Also Mines Producing 200,000 Tons for 10 Years.*

YEAR.	MINES PRODUCING 100,000 TONS AND LESS THAN 200,000 TONS.		MINES PRODUCING MORE THAN 200,000 TONS.	
	Number of mines.	Tons.	Number of mines.	Tons.
1896.....	45	6,557,545	16	3,962,435
1897.....	41	5,778,374	17	4,514,507
1898.....	42	5,893,596	7	1,709,457
1899.....	56	7,443,023	25	6,556,651
1900.....	65	8,995,963	27	6,769,328
1901.....	58	8,006,897	33	8,370,234
1902.....	72	9,923,538	38	10,101,867
1903.....	87	12,387,437	45	12,728,405
1904.....	98	13,753,975	46	13,460,772
1905.....	88	12,158,090	52	14,181,792

It is here shown that the mines of the minor class have increased during the 10 years from 45 to 88, or 95.56 per cent, while the output has increased 5,600,545 tons or 85.51 per cent. During the same period the mines shown in the greater class have increased from 16 in 1896 to 52 for the present year, or 225 per cent. The increase in the product of these mines, for the same period has been 10,219,357 tons or 257.91 per cent.

#### NUMBER OF MINES.

The gain or loss in the number of mines for the year is shown in the following table:

TABLE 17—*Gain and Loss in Number of Mines 1904-1905, by Districts.*

	Total number of mines 1904.	Number new mines opened 1905.	Total.	Number of mines aban- doned 1905.	Total number of mines 1905.	YEAR 1905.	
						Gain.	Loss.
First.....	88	17	105	16	89	1	.....
Second.....	171	43	214	36	178	7	.....
Third.....	238	35	273	11	262	24	.....
Fourth.....	96	26	122	21	101	5	.....
Fifth.....	102	16	118	6	112	10	.....
Sixth.....	117	14	131	4	127	10	.....
Seventh.....	120	17	137	16	121	1	.....
The State.. ...	932	168	1,100	110	990	53	.....

This showing is by districts, and for the two years, 1904 and 1905. The third district shows much the largest increase, all of the districts show a gain.



Table 15—Concluded.

Rank.	COMPANIES.	Location.	Days in operation	Depth of mine.	Thickness of seam.
44	Monmouth Coal Co. No. 1.....	Brereton .....	228	125	4 1/2
45	Madison Coal Co. No. 2.....	Glen Carbon.....	168	110	6 0
46	Dering Coal Co. No. 2.....	Westville .....	250	215	6
47	Consolidated Coal Co. No. 10.....	Mt. Olive.....	2-8	431	8
48	Kelley Coal Co. No. 5.....	Grape Creek.....	179	90	7
49	White Walnut Coal Co.....	Pinckneyville ..	261	10	6
50	Consolidated Coal Co. No. 8.....	Mt. Olive.....	208	410	8
51	Superior Coal Co. No. 2.....	Gillespie.....	247	324	8
52	Big Muddy Coal & Iron Co.....	Murphysboro.....	221	150	6
Total tons.....					

The number of this class of mines for the year is 52, with more than last year, with a total output of 14,181,972 tons, 721,520 tons more than the 46 mines of the same class last year, combining the two classes of these large producing mine mines with an output of 26,339,882 tons. These represent 100 per cent of the shipping mines, and 73.23 per cent of the same mines.

The following table shows these mines with their output for the years:

TABLE 16—Mines Producing 100,000 Tons and Less, Also Mines Producing 200,000 Tons for

YEAR.	MINES PRODUCING 100,000 TONS AND LESS THAN 200,000 TONS.	
	Number of mines.	Tons.
1896.....	45	6,557,515
1897.....	41	5,778,374
1898.....	42	5,693,596
1899.....	56	7,443,628
1900.....	65	8,995,933
1901.....	58	8,008,897
1902.....	72	9,923,518
1903.....	87	12,387,455
1904.....	93	13,753,967
1905.....	83	12,158,100

this is number

The number of these mines, located in the different districts, and the total number in the State, also the gain and loss from year to year for 10 years is shown in the following table:

TABLE 19—*Number of Shipping Mines, by Districts, with Gain and Loss, for Ten Years.*

YEAR.	DISTRICTS.							Total.	Gain.	Loss.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.			
1896.....	38	46	27	40	50	72	49	322		
1897.....	35	46	19	36	50	73	51	310		12
1898.....	39	45	21	19	51	72	59	326	16	
1899.....	37	45	23	37	50	72	57	321		5
1900.....	44	20	55	34	44	73	53	323	2	
1901.....	39	26	53	33	46	77	57	331	8	
1902.....	33	25	56	34	46	80	53	332	1	
1903.....	34	25	50	45	46	83	70	353	21	
1904.....	41	28	55	46	53	84	73	380	27	
1905.....	39	29	55	45	56	92	81	397	17	
Gain.....	1		28	5	6	20	32	75	63	
Loss.....		17								20

All the districts show a gain in the number of this class of mines, excepting the second, during the ten years. The second district shows a loss of 17 mines; the largest gains are shown in the seventh, third and sixth districts; the total gain for the State is 75 for this class of mines, mainly for the years 1898, 1903 and 1904 and the present year. The gain was 22 in the number of local mines during the same period.

A list of the shipping mines, their location and activity as producers and distributors of the coal output of the State, has been published each year for several years. The number of this class of mines in this year is 397, their combined output being 35,956,043 tons, or 75.5 per cent of the total output of the State; while the number of these mines is 174 per cent of the total number. The Consolidated Coal Company is the largest with 18 mines, and an output of 1,185,000 tons. The Kentucky Coal Company had first place with 11 mines. Five of these companies show an output of over 1,000,000 tons. Several of these companies had a like output in 1905. The output of the several companies in 1905 was as follows:

The number of coal mines opened and closed, with the gain and loss each year for the past 16 years is presented in the following table:

TABLE 18—*Total Number of Mines, the Number Opened and Closed, also the Gain and Loss for Sixteen Years.*

YEAR.	NUMBER OF MINES.					
	At beginning of year.	Opened.	Closed.	Gain.	Loss.	At close of year.
1890.....	854	176	94	82	.....	936
1891.....	936	92	110	.....	18	918
1892.....	918	59	138	.....	79	839
1893.....	839	69	120	.....	51	788
1894.....	788	156	108	48	.....	836
1895.....	836	116	78	38	.....	874
1896.....	874	142	115	27	.....	901
1897.....	901	70	118	.....	48	853
1898.....	853	120	92	28	.....	881
1899.....	881	129	121	8	.....	889
1900.....	889	147	116	31	.....	920
1901.....	920	138	143	.....	5	915
1902.....	915	111	111	.....	.....	915
1903.....	915	109	91	18	.....	933
1904.....	933	109	110	.....	1	932
1905.....	932	168	110	58	.....	990
Totals.....	.....	1,911	1,775	338	202	.....

The number of new mines opened during the year was 168; this is the largest number opened in any one year since 1890; the number closed during the year was 110, the same as shown for last year.

#### SHIPPING MINES.

This class of mines has, for several years, produced a very large proportion of the coal output of the State, and, as a consequence, has been the large employer of the labor in bringing the coal to the surface, and loading it on to the cars for shipment to the various markets.

The number of these mines, located in the different districts, and the total number in the State, also the gain and loss from year to year for 10 years is shown in the following table:

TABLE 19—*Number of Shipping Mines, by Districts, with Gain and Loss, for Ten Years.*

YEAR.	DISTRICTS.							Total.	Gain.	Loss.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.			
1896.....	38	46	27	40	50	72	49	322	.....	.....
1897.....	35	46	19	36	50	73	51	310	.....	12
1898.....	39	48	21	19	51	72	59	329	19	.....
1899.....	37	45	23	37	50	72	57	321	.....	8
1900.....	44	20	55	34	44	73	33	323	2	.....
1901.....	39	28	53	33	46	77	57	331	8	.....
1902.....	33	25	56	34	46	80	58	332	1	.....
1903.....	34	25	50	45	46	83	70	353	21	.....
1904.....	41	28	55	46	53	84	73	380	27	.....
1905.....	39	29	55	45	56	92	81	397	17	.....
Gain.....	1	.....	28	5	6	20	32	75	95	.....
Loss.....	.....	17	.....	.....	.....	.....	.....	.....	.....	20

All the districts show a gain in the number of this class of mines, excepting the second, during the ten years. The second district shows a loss of 17 mines; the largest gains are shown in the seventh, third and sixth districts; the total gain for the State is 75 for this class of mines, mainly for the years 1898, 1903 and 1904 and the present year. The gain was 22 in the number of local mines during the same period.

A list of the shipping mines, their location and activity as producers and distributors of the coal output of the State, has been published each year for several years. The number of this class of mines for this year is 397, their combined output being 35,956,543 tons or 97 per cent of the total output of the State; while the number of these mines represent 40 per cent of the total number. The Consolidated Coal Company heads the list with 18 mines, and an output of 1,688,560 tons; last year the Kellyville Coal Company had first place with nearly 2,000,000 tons. Five of these companies show an output of over 1,000,000 tons, last year seven companies had a like output. These mines are operated at 173 different localities, in the several districts of the State, with a total output, as before noted, of 35,956,543 tons; the total product of all the mines of the State for the year being 37,183,374 tons.

Notwithstanding the reports which have recently been quite generally and repeatedly published, concerning the consolidations of the coal mining companies of Illinois, and the making over of coal mine properties and lands during the past year, the list that follows reveals that, compared with last year, there has been an increase both in the number of shipping mines operated and the number of operators. This is shown in the following statement:

## OPERATORS.

Year.	Number of mines operated.	Corporations.	Firms.	Individuals.	Totals.
1905	397	242	21	17	280
1904	390	228	20	25	273

Here it is shown that the coal corporations of the State have increased from 228 in 1904 to 242 for this year. The firms or partnerships operating mines have only increased by one, while the individual operators have diminished from 25 to 17; however, showing a net increase of seven in the number of operators. The increase has been 17, in the number of these large mines.

The list of mines follows:

TABLE 20—*Shipping or Commercial Collieries—Distribution of Output—1905.*

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	Total output, all grades.	DISTRIBUTION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
1	Consolidated Coal Co.	18	.....	1,688,560	1,474,803	63,750	41,260	108,747
..do	.....	3	Staunton .....	503,918	432,242	37,636	11,180	27,860
..do	.....	3	Mt. Olive .....	426,067	398,757	.....	4,160	23,150
..do	.....	3	Collinsville .....	292,431	244,114	20,377	9,910	18,030
..do	.....	1	Breese .....	115,829	109,329	.....	1,700	4,800
..do	.....	3	Belleville .....	114,070	104,213	.....	820	9,037
..do	.....	1	Fairmount .....	69,056	63,256	.....	2,700	3,100
..do	.....	1	Trenton .....	63,480	52,260	.....	2,500	3,700
..do	.....	1	Gillespie .....	37,928	20,781	5,737	5,310	6,100
..do	.....	1	Troy .....	32,262	27,612	.....	1,780	2,870
..do	.....	1	Hornsby .....	28,539	22,239	.....	1,200	5,100
2	Kelly Coal Co.	6	.....	1,481,431	1,425,012	5,383	10,000	41,036
..do	.....	2	Westville .....	575,178	557,457	5,383	.....	12,338
..do	.....	2	Grape Creek .....	472,474	453,840	.....	.....	18,634
..do	.....	1	Kellyville .....	243,002	228,502	.....	10,000	4,500
..do	.....	1	Himrod .....	190,777	185,213	.....	.....	5,564

Table 20—Continued.

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	Total output, all grades.	DISTRIBUTION OF OUTPUT.			
					Tons loaded on cars at the mine for shipment	Supplied to locomotives at mine chutes.	Sold to local trade	Consumed and wasted at the mine.
3	Spring Valley Coal Co.	5	Spring Valley	1,213,652	1,129,154	14,254	23,858	46,386
4	Illinois Collieries Co.	8	.....	1,176,098	1,055,920	17,377	46,158	56,643
do	.....	5	Virden.....	800,990	722,214	7,621	27,317	43,578
do	.....	1	Auburn.....	173,756	166,910	.....	1,853	4,993
do	.....	1	Sorento.....	129,815	122,274	.....	3,321	4,220
do	.....	1	Litchfield.....	71,567	44,322	9,556	13,667	3,852
5	Springfield C. M. Co.	6	.....	1,155,329	1,006,323	51,919	38,932	58,155
do	.....	3	Springfield....	547,769	513,948	.....	19,602	14,219
do	.....	2	Riverton.....	378,510	344,808	550	5,008	28,084
do	.....	1	Taylorville ...	229,060	147,517	51,369	14,322	15,852
6	Chi., Wil. & V. C'l Co.	5	.....	903,538	932,481	.....	10,619	50,438
do	.....	2	S. Wilm'gton.	411,993	365,439	.....	4,806	11,748
do	.....	1	Thayer.....	380,732	368,735	.....	1,954	10,043
do	.....	2	Streator.....	200,813	168,307	.....	3,859	28,647
7	Madison Coal Co.	4	.....	941,962	863,691	23,737	10,005	44,329
do	.....	2	Glen Carbon..	428,116	394,166	2,350	3,977	27,623
do	.....	1	Divernon.....	341,082	328,231	.....	4,210	8,641
do	.....	1	Mt. Olive.....	172,764	141,295	21,387	1,818	8,265
8	Donk Bros. C. & C. Co.	3	.....	935,019	901,707	2,464	6,917	23,931
do	.....	2	Collinsville...	644,226	622,098	2,464	2,409	17,255
do	.....	1	Troy.....	290,793	279,609	.....	4,508	6,676
9	Big Muddy C. & I. Co.	4	.....	901,327	844,934	465	5,650	50,278
do	.....	1	Herrin.....	447,287	427,555	465	2,781	16,486
do	.....	2	Murphysboro.	346,179	316,799	.....	.....	29,380
do	.....	1	Clifford.....	107,961	100,580	.....	2,869	4,412
10	Dering Coal Co.	6	.....	739,544	721,314	.....	7,230	10,900
do	.....	4	Westville.....	551,666	541,862	.....	2,344	7,460
do	.....	1	Paisley.....	161,313	153,751	.....	4,722	2,840
do	.....	1	W. Frankfort.	26,565	25,701	.....	264	600
11	LaSalle Co. C. C. Co.	4	LaSalle.....	626,678	478,423	74,283	51,343	22,629
12	Peabody Coal Co.	3	.....	598,097	489,455	.....	186	108,456
do	.....	2	Marion.....	483,762	384,080	.....	.....	99,682
do	.....	1	Sherman.....	109,335	105,375	.....	186	3,774

Table 20—Continued.

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	Total output, all grades.	DISTRIBUTION OF OUTPUT.			
					Tons loaded on cars at the mine for shipm't	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
13	Superior Coal Co.....	2	Gillespie.....	483,838	470,367	.....	710	12,761
14	Mt. O. & St'n't'n C. Co	2	Staunton.....	466,044	448,373	5,952	3,315	8,404
15	P. & D. Min. & M. Co.	1	Centralia.....	440,143	282,190	106,192	23,161	28,600
16	Chi. & Cart'v'le C. Co.	2	.....	432,068	409,003	.....	4,812	18,273
	do.....	1	Herrin.....	402,088	380,503	.....	4,312	17,273
	do.....	1	DeSoto.....	30,000	28,500	.....	500	1,000
17	Muren Coal & Ice Co.	2	.....	429,288	395,233	16,748	5,026	12,281
	do.....	1	New Baden.....	269,344	255,969	.....	2,684	10,691
	do.....	1	Belleville.....	159,944	139,264	16,748	2,342	1,590
18	St. L. & O'Fal'n C. Co	2	East St. Louis	406,284	399,084	3,600	.....	3,600
19	Devlin Coal Co.....	1	Toluca.....	379,974	323,469	32,242	6,124	18,139
20	Willis C. & Min. Co.	2	.....	372,991	283,728	80,255	3,455	5,553
	do.....	1	Willisville.....	241,474	155,594	80,255	1,874	3,751
	do.....	1	Percy.....	131,517	128,134	.....	1,581	1,802
21	Sunnyside Coal Co...	1	Herrin.....	371,225	341,599	.....	1,825	27,801
22	Big 4 Wilm'gt'n C. Co	3	Carbon Hill..	338,593	318,135	.....	5,808	14,655
23	Joseph Taylor C. Co.	3	O'Fallon.....	335,727	310,202	775	3,600	21,150
24	Lumaghi Coal Co.....	2	Collinsville...	323,918	312,900	.....	954	10,064
25	Maplewood Coal Co..	2	Peoria.....	285,947	276,636	819	4,424	4,068
26	Ill. 3d Vein Coal Co..	1	Ladd.....	271,088	242,278	9,116	5,198	14,496
27	Carterville Coal Co...	3	Carterville....	268,567	260,825	.....	650	7,092
28	Breese Trenton M. Co	2	Breese.....	267,350	210,962	47,834	5,662	2,892
29	Braceville Coal Co...	2	Braceville.....	253,619	241,194	.....	3,207	11,218
30	Centralia M. & M. Co.	1	Centralia.....	254,248	155,357	63,257	22,391	13,243
31	Mo. & Ill. Coal Co...	4	.....	253,666	246,760	.....	931	5,975
	do.....	1	Willisville.....	127,499	126,553	.....	715	231
	do.....	3	Belleville.....	126,167	120,207	.....	216	5,744
32	Marquette 3d V. C. Co.	2	.....	250,950	229,559	.....	5,996	15,396
	do.....	1	Marquette.....	237,323	220,366	.....	2,506	14,451
	do.....	1	Sparland.....	13,627	9,193	.....	3,489	945
33	St. L. & Big M. C. Co.	1	Dewmaine.....	239,643	228,288	1,950	1,155	8,250
34	Latham Coal Co.....	1	Lincoln.....	229,966	214,697	.....	9,078	6,191
35	Victor Coal Co.....	1	Pawnee.....	228,896	216,192	1,936	7,242	3,526
36	Whitebreast F.C. of Ill	2	Dunfermline..	222,210	215,006	.....	368	6,834

Table 20—Continued.

No. of Operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	DISTRIBUTION OF OUTPUT.			
				Total output, all grades.	Tons loaded on cars at the mine for shipment	Supplied to locomotives at mine chutes.	Consumed and wasted at the mine.
37	Newsam Bros.....	5		225,386	212,906		7,593
	do .....	3	Peoria .....	148,855	144,258		3,594
	do .....	1	Farmington ..	66,554	60,710		2,160
	do .....	1	Mapleton .....	9,977	7,988		1,839
38	Monmouth Coal Co....	1	Brereton .....	214,123	208,512		9,399
39	White Walnut C. Co..	1	Pinckneyville	208,873	147,973	55,876	3,490
40	Wilmington Star M.C.	4	Coal City .....	206,734	195,346		7,105
41	Muddy Val. M. & M.C.	1	Hallidayboro ..	198,211	109,695	63,626	21,977
42	Capitol Cooperat.C.C.	1	Springfield ...	195,877	104,750	18,252	16,337
43	Coal Valley Min. Co.	2		192,282	180,394	574	8,734
	do .....	1	Sherrard .....	124,618	125,998	30	6,000
	do .....	1	Cable .....	57,674	54,286	544	2,784
44	Odin Coal Co.....	1	Odin .....	188,821	177,063		7,582
45	Sandoval C. & M. C ..	2	Sandoval .....	187,547	173,495		10,048
46	Chic. & Herrin C.C....	1	Herrin .....	186,748	181,364		2,920
47	Wabash Coal Co.....	2		179,514	168,516		6,385
	do .....	1	Dawson .....	107,044	101,096		3,365
	do .....	1	Athens .....	72,470	67,450		3,020
48	Cardiff Coal Co.....	1	Cardiff .....	177,529	168,175		4,915
49	Empire Coal Co.....	1	Gilchrist .....	174,780	168,932		3,624
50	Western C. & Min. C.	1	Bush .....	174,692	169,824		3,857
51	Big Creek Coal Co....	2	St. David.....	173,790	173,270	520	
52	Chi. & Big Muddy C.C.	1	Marion .....	166,262	162,939		3,202
53	Citizens Coal Co.....	2	Springfield ...	165,626	134,078	24,317	3,057
54	Royal Colliery Co....	1	Virden .....	160,563	156,563		4,000
55	Superior C. & M. Co..	1	Belleville.....	158,116	154,116		4,000
56	Clark Coal & Coke Co	2	Peoria .....	156,453	141,733	10,400	1,800
57	Star Coal Co.....	2	Streator .....	156,150	151,030		3,610
58	Spaulding Coal Co....	2		154,692	145,269		6,777
	do .....	1	Bissell.....	118,604	113,384		4,380
	do .....	1	Spaulding.....	36,088	31,885		2,397
59	Royal Coal & Min. C.	1	Belleville .....	149,550	141,250		8,300



Table 20—Continued.

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	Total output, all grades.	DISTRIBUTION OF OUTPUT.			
					Tons loaded on cars at the mine for shipm't	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
60	Avery Coal Co.....	3	.....	148,918	137,880	.....	4,533	6,505
	.do .....	1	Belleville .....	78,718	72,942	.....	1,216	4,560
	.do .....	1	Freeburg.....	49,993	48,607	.....	989	397
	.do .....	1	Marissa .....	20,207	16,331	.....	2,328	1,548
61	Oglesby Coal Co.....	1	Oglesby .....	148,552	137,178	.....	4,193	7,181
62	Christian County C.C.	1	Taylorville ...	147,299	132,936	.....	10,107	4,256
63	Jefferson Coal Co ...	1	Springfield ...	146,000	134,000	.....	6,500	5,500
64	Hillsboro Coal Co ...	1	Hillsboro .....	145,838	131,880	.....	8,992	4,966
65	Trenton Coal Co.....	1	Trenton .....	141,962	128,122	.....	8,840	5,000
66	Cartersville Dist. C. Co	1	Marion .....	141,067	139,242	.....	.....	1,825
67	Manufacturers Fuel Co.	4	.....	140,442	135,164	.....	1,362	3,916
	.do .....	6	Duquoin .....	136,221	131,243	.....	1,362	3,616
	.do .....	1	St Johns .....	4,221	3,921	.....	.....	300
68	Greenridge M. Co...	1	Greenridge ...	140,229	134,760	.....	3,265	2,204
69	Alden Coal Co.....	2	Wanlock .....	138,246	127,941	1,138	1,680	7,487
70	Kolb Coal Co.....	3	Mascoutah....	137,411	122,730	.....	11,081	3,600
71	Acme Coal Co.....	1	Streator.....	137,046	105,695	.....	9,232	22,119
72	Woodside Coal Co ...	1	Springfield ...	137,000	114,590	14,400	3,200	4,810
73	Sangamon Coal Co...	1	.do .....	136,320	129,969	.....	4,289	2,062
74	Kerns-Doniewald Co.	1	Worden .....	135,910	127,133	.....	5,127	3,650
75	Penwell Coal M. Co..	1	Pana .....	134,502	100,798	8,335	16,714	8,655
76	West End Coal Co ...	1	Springfield ...	134,031	78,477	12,111	38,721	4,722
77	Walnut Hill Coal Co .	1	Belleville.....	129,798	123,390	.....	.....	6,408
78	McLean Co. Coal Co.	1	Bloomington..	129,000	20,000	25,000	70,000	14,000
79	Gallatin C. & C. Co ..	2	.....	122,172	50,867	40,416	23,229	7,660
	.do .....	1	Equality .....	67,857	50,285	2,186	9,607	5,779
	.do .....	1	Nashville .....	54,315	582	38,230	13,622	1,881
80	Pana Coal Co.....	1	Pana .....	118,959	60,920	29,340	5,862	22,837
81	Newbent Coal Co ....	1	.do .....	117,335	107,300	.....	.....	10,035
82	Edwardsville Coal Co.	1	Edwardsville ..	114,966	102,032	.....	6,445	6,489
83	Davenport Coal Co...	1	Ledford .....	113,682	96,442	15,740	325	1,175
84	Crown C. & I. Co.....	1	Belleville .....	113,370	108,063	2,915	210	2,182
85	Decatur Coal Co.....	3	.....	111,391	32,022	.....	78,675	694
	.do .....	2	Decatur .....	75,331	13,500	.....	61,831	.....
	.do .....	1	Niantic .....	36,060	18,522	.....	16,844	694

Table 20—Continued.

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	DISPOSITION OF OUTPUT.			
				Total output, all grades.	Tons loaded on cars at the mine for shipm't	Supplied to locomotives at mine chutes.	Consumed and wasted at the mine.
86	Borders Coal Co.....	2	Marissa .....	110,837	101,272	7,540	2,025
87	Wenona Coal Co .....	1	Wenona .....	110,175	93,669	11,506	5,000
88	Williamson Co. C.Co.	1	Johnson City..	109,562	102,000	3,000	4,562
89	Gartside Coal Co .....	2	Murphysboro..	109,190	86,435	2,957	19,798
90	Citizens C. & M. Co..	1	Lincoln.....	108,335	59,878	25,032	10,475
91	Norris Coal Min. Co..	1	Norris.....	106,000	90,000	13,200	1,800
92	Assumption C.&M. Co	1	Assumption ..	105,698	80,864	12,172	12,662
93	Glendale C. & M. Co.	2	Belleville.....	105,313	93,190	5,968	6,137
94	Electric Coal Co .....	1	Danville .....	105,104	103,104		2,000
95	Marissa C. & M. Co ..	2	Marissa .....	104,594	101,394	840	2,360
96	Cantrall Co-op. C.Co.	1	Cantrall.....	103,493	80,020	19,773	1,265
97	Greenview C.&M.Co.	1	Greenview .....	103,487	89,756	5,139	8,592
98	Ziegler Coal Co .....	1	Zeigler .....	103,223	91,263	1,460	10,500
99	Johnson City & Big Muddy C. & M. Co.	1	Johnson City..	103,027	100,027		3,000
100	Hippard Coal Co .....	2	Belleville .....	102,542	76,492	17,829	1,021
101	Mow'q'a C.M.&Mf.Co	1	Moweaqua .....	102,534	68,996	16,778	11,254
102	Roanoke C. & M. Co.	1	Roanoke.....	102,395	84,061	5,594	7,349
103	Mathiesson & H. Z. Co	1	LaSalle .....	101,685		989	4,798
104	L. Superior Coal Co..	2	.....	101,011	90,990	7,721	2,300
	do .....	1	Duquoin .....	67,605	65,205	600	1,800
	do .....	1	Belleville .....	33,406	25,785	7,121	500
105	DeCamp Coal Co.....	1	Staunton .....	100,972	81,988	383	18,601
106	Williamsville Coal Co	1	Selbytown....	96,919	87,049	5,870	4,000
107	Gas Coal Co .....	1	Harrisburg....	95,000	90,000		5,000
108	Athens Mining Co....	1	Athens.....	92,682	86,564	2,913	3,205
109	Auburn & Alton C.Co	1	Auburn .....	89,576	80,176	6,600	2,800
110	Applegate & Lewis ..	1	Cuba .....	89,000	70,000	15,300	150
111	Queen City M. Co....	1	Duquoin .....	88,800	84,000	2,000	2,800
112	Barclay Coal & M. Co	1	Barclay .....	88,262	74,151	8,111	6,000
113	Wil. Coal & M. Co....	1	Diamond .....	86,308	80,322	1,986	4,000
114	Wolschlag Cöop. C.C	1	Peoria .....	84,900	83,969		931
115	Donaly-Koenn'ke C.C	1	Carterville....	84,564	80,564	350	3,650
116	Eureka Coal Co .....	2	.....	81,230	78,088	1,588	1,556
	do .....	1	Marissa .....	74,249	71,249	1,588	1,414
	do .....	1	Tilden .....	6,981	6,839		142

Table 20—Continued.

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	Total output all grades.	DISTRIBUTION OF OUTPUT.			
					Tons loaded on cars at the mine for shipm't	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
117	New Virginia C. Co..	1	Johnson City.	80,000	80,000	.....	.....	.....
118	Moffat Coal Co. ....	1	Sparta .....	79,678	78,028	.....	750	900
119	Spri'g'ld Cöop. C Co	1	Springfield ...	78,300	56,300	.....	18,375	3,625
120	Illinois Zinc Co.....	1	Peru .....	77,558	76,171	.....	404	983
121	Tuxhorn Coal Co.....	1	Keys .....	77,314	71,038	.....	1,714	4,562
122	New O. Wash'd C. Co	1	Cartersville ....	76,769	72,522	.....	300	3,947
123	Chicago Collieries Co	1	Catlin .....	74,162	69,606	.....	361	4,195
124	Illinois Fuel Co.....	2	Sparta .....	73,267	70,867	.....	.....	2,400
125	Kewanee Coal Co ....	1	Kewanee ....	73,054	64,083	.....	6,971	2,000
126	Clover Leaf Coal Co.	1	Coffeen .....	72,398	68,245	.....	2,353	1,800
127	Tazewell Cou'ty C. Co	1	Pekin .....	71,863	66,321	.....	4,812	730
128	Oak Hill Coal Co.....	1	Belleville .....	71,560	68,613	.....	547	2,400
129	Manf. & Con. Coal Co.	1	Decatur .....	71,479	13,944	.....	52,351	5,184
130	Sholl Bros.....	1	Peoria .....	70,187	68,772	.....	133	1,282
131	James Cahill Est.....	1	Peru .....	69,600	23,500	24,175	20,175	1,750
132	Robt. Dick Coal Co...	1	Cambria .....	68,967	62,740	.....	3,227	3,000
133	Cartersville Min'g Co.	1	Herrin .....	67,647	66,359	10	175	1,103
134	Summit Coal Co.....	1	Belleville .....	67,159	66,209	.....	.....	950
135	Economy Coal Co....	1	Danville .....	66,769	43,469	22,000	.....	1,300
136	Valley C. & M. Co....	1	Mascoutah ...	65,400	62,400	.....	.....	3,000
137	Carterv. & Big. M. C. C	1	Cambria .....	62,959	61,934	.....	255	770
138	Mrs. E. Hakes .....	1	Rutland .....	62,338	36,789	16,446	3,603	5,500
139	East Cuba Coal Co....	1	Cuba .....	61,240	60,000	.....	.....	1,240
140	Clifton Coal Co.....	1	Ledford.....	59,535	57,434	.....	.....	2,101
141	Chi.-Springf'd C. Co.	1	Springfield ...	59,149	55,562	.....	667	2,920
142	Murphy-Keenan & Co	1	Braidwood....	58,043	50,719	.....	5,824	1,500
143	Phoenix Coal Co.....	1	Peoria .....	57,485	56,485	.....	.....	1,000
144	Wil. & Spfld. Coal Co.	1	Springfield ...	57,105	37,865	11,660	3,235	4,345
145	Johnson Coal Co.....	1	Marissa .....	56,967	46,277	.....	.....	10,690
146	Carlinville Coal Co...	1	Carlinville ...	56,850	38,103	1,619	13,206	3,920
147	Collier Cöop. Coal Co.	1	Bartonville....	56,200	55,000	.....	.....	1,200
148	Inland Coal & W. Co.	1	DeSoto .....	56,000	43,000	.....	320	12,680
149	Greenw'd-Davis C. Co.	1	Duquoin .....	54,850	50,000	.....	2,000	2,850
150	Howorth & Taylor....	1	Edwards .....	54,066	49,954	.....	2,251	1,861
151	Henrietta Coal Co ....	1	Edwardsville .	52,471	37,211	.....	11,641	3,619

Table 20—Continued.

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	DISTRIBUTION OF OUTPUT.				
				Total output, all grades.	Tons loaded on cars at the mine for shipment	Supplied to locomotives at mine chute.	Sold to local trade.	Consumed and wasted at the mine.
152	Lebanon C. & M. Assn.	2	O'Fallon .....	52,212	38,873		4,969	8,350
153	Crystal Coal Co. ....	1	Tilden .....	50,882	40,078		5,124	5,680
154	Terre Coal & Min. Co.	1	Lenzburg .....	50,863	46,665		590	3,608
155	Gus Blair B. M. C. Co.	1	Murphysboro .....	50,310	47,080		626	2,604
156	Coulterville Min. Co.	1	Coulterville .....	49,915	42,924		2,111	4,880
157	Lenz Coal Co. ....	2	Belleville .....	48,053	45,853		600	1,600
158	Germantown Coal Co.	1	Germantown .....	46,881	39,630		4,000	3,251
159	Tilden Coal Co. ....	1	Tilden .....	44,955	41,493		935	2,527
160	Middletown Coal Co.	1	Middletown .....	44,444	38,467		2,637	3,340
161	Equitable Coal Co. ....	1	Duquoin .....	44,402	43,700		52	650
162	Suburban Coal Co. ....	1	Belleville .....	44,254	43,164		370	720
163	Pittsburg Min. Co. ....	1	do .....	43,750	42,250		500	1,000
164	St. Paul Coal Co. ....	1	Granville .....	42,964	37,768		972	4,224
165	Sunlight Coal Co. ....	1	Freeburg .....	42,072	35,620		1,198	5,254
166	Watson Coal Co. ....	1	Herrin .....	42,000	41,000	800	100	100
167	West Muddy Coal Co.	1	Coulterville .....	41,476	41,476			
168	Chi.-Marion Coal Co.	1	Marion .....	41,265	39,075			2,190
169	Carterv.-Herrin C. Co.	1	Herrin .....	41,110	39,715		201	1,194
170	Vickery Bros. ....	1	Peoria .....	41,000	20,500		20,000	500
171	Tallula Coal Co. ....	1	Tallula .....	40,225	34,281		4,484	1,460
172	Foley Coal Co. ....	1	Canton .....	40,181	39,181		1,000	
173	E. S. Gray .....	1	Oakwood .....	40,000	40,000			
174	J. A. Greim .....	1	Coulterville .....	39,617	38,845			772
175	So. Mountain Coal Co.	1	Petersburg .....	37,503	28,541	3,103	4,177	1,682
176	Bailey Bros. Coal Co.	1	Sunfield .....	36,991	33,417		695	2,879
177	Fullerton Coal Co. ....	1	Belleville .....	36,800	34,700			2,100
178	Soper & Co. ....	1	Cutler .....	36,285	28,285	6,000	1,000	1,000
179	New Staunton C. Co.	1	Staunton .....	35,155	32,127	19	619	2,390
180	Eaton Fuel Co. ....	1	Sunfield .....	33,944	32,914		250	780
181	Lincoln Coal Co. ....	1	Lincoln .....	33,519	17,067		11,000	5,452
182	Blk. Diamond Coal Co.	1	Auburn .....	33,233	28,503		3,607	1,123
183	Central C. & Coke Co.	1	Elmwood .....	32,642	30,987		770	885
184	Highland Coal Co. ....	1	Belleville .....	32,250	19,856	1,059	6,390	4,945
185	Howe Coal Co. ....	1	Streator .....	31,854	7,495		23,638	721
186	Petersburg C. M. Co.	1	Petersburg .....	31,472	28,492		1,061	1,919

Table 20—Continued.

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	Total output, all grades.	DISTRIBUTION OF OUTPUT.			
					Tons loaded on cars at the mine for shipm't	Supplied to loco-motives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
187	Canton Union Coal Co	1	Canton .....	31,400	20,000	.....	10,800	800
188	Galatia Coal Co. ....	1	Galatia .....	31,000	25,000	643	4,277	1,080
189	Wil. C. M. & Mfg. Co.	1	Diamond .....	29,412	26,412	.....	.....	3,000
190	Isaac Wantling & Son	1	Peoria.....	29,000	28,000	.....	100	900
191	Rixon Coal Co. ....	1	Braceville ....	28,372	24,014	.....	1,438	2,920
192	Little Muddy Coal Co	1	Tamaroa .....	28,248	22,754	.....	4,794	700
193	O'Fallon Coal M. Co.	1	O'Fallon .....	28,013	26,733	.....	411	871
194	Enterprise Min. Co...	1	Rentchler ....	26,937	25,587	.....	22	1,348
195	Charles Hortman.....	1	Belleville .....	26,502	17,802	.....	8,000	700
196	Reents Bros. ....	1	Peoria.....	26,000	23,000	.....	3,000	.....
197	Herman Pfuhl.....	1	Belleville .....	25,086	24,556	.....	42	498
198	Spoon River Coal Co.	1	Ellisville.....	25,064	21,368	2,596	300	800
199	Colfax Cooperat. C.Co	1	Colfax .....	24,914	10,052	7,178	5,192	2,492
200	New Moon Mining Co	1	Duquoin .....	24,613	20,731	.....	2,882	1,000
201	Morris Bros. ....	1	do .....	24,512	23,312	.....	.....	1,200
202	Adam Kuhn .....	1	Dubois.....	24,000	16,000	.....	7,500	500
203	Breese-Trenton M.Co	1	Trenton.....	23,573	19,638	.....	946	2,989
204	Trutter Coal Co. ....	1	Ple's'nt Plains	22,425	18,685	.....	2,740	1,000
205	Erie Star Coal Co.....	1	Peoria .....	22,000	14,000	.....	7,400	600
206	Boyd Coal & Coke Co	1	Sparta .....	22,000	20,000	.....	1,500	500
207	W. E. Foley .....	1	Mapleton .....	21,887	21,508	.....	79	300
208	Little Oake Coal Co..	1	Belleville.....	21,574	21,000	.....	.....	574
209	Ill. C. M. & Coke Co.	1	Chenoa.....	21,096	1,020	.....	18,668	1,408
210	Eldorado Coal Co.....	1	Eldorado.....	20,078	15,373	.....	3,505	1,200
211	Oakwood Coal Co.....	1	Oakwood.....	20,000	18,000	.....	2,000	.....
212	St. L. & C't'r'ville C.Co	1	Herrin .....	19,812	18,507	634	167	504
213	Essex & Fritz.....	2	Cuba .....	19,600	19,600	.....	.....	.....
214	Forester Coal Co. ....	1	Duquoin.....	18,884	18,884	.....	.....	.....
215	Lake Erie Coal M. Co	1	Peoria .....	18,800	14,200	.....	4,200	400
216	Inter-State Coal Co..	1	Worden .....	18,485	17,425	.....	.....	1,060
217	Fred Murphy .....	1	Belleville .....	18,000	13,000	.....	5,000	.....
218	Duq'n-Pitts. C.&C.Co	1	Duquoin .....	17,992	16,656	.....	.....	1,336
219	Silvis Mining Co.....	1	Carbon Cliff..	17,720	16,819	.....	212	689
220	Salt Fork Coal Co.....	1	Missionfield..	16,989	16,989	.....	.....	.....
221	John O'Connell C. Co	1	Grape Creek..	16,959	16,084	.....	200	675

Table 20—Continued.

No. of operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	Total output all grades.	DISTRIBUTION OF OUTPUT.			
					Tons loaded on cars at the mine for shipm't	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
222	Minonk Coal Co. ....	1	Minonk .....	16,254	8,240		6,490	1,554
223	Colp Coal Co.....	1	Carterville ....	14,982	13,182			1,800
224	Yates City Coal Co. .	1	Yates City ....	14,500	9,500		4,000	1,000
225	Farmington Coal Co..	1	Farmington ..	14,449	10,949		2,086	1,434
226	German Coal Co.....	1	Mapleton.....	14,312	9,687	4,000	225	400
227	Humboldt Coal Co....	1	Belleville ...	13,776	6,921		4,100	2,755
228	Blue Mound Coal Co.	1	Blue Mound ..	13,758	5,028		6,423	2,309
229	Home Coal Co.....	1	Mt. Pulaski ...	12,468	1,677		9,351	1,440
230	Monarch Coal Co.....	1	Monmouth ...	12,402	9,460		1,454	1,488
231	Kortkamp Coal Co....	1	Hillsboro.....	12,252	12,052			200
232	B. B. Peterson.....	1	Cable .....	11,800	8,600		3,000	200
233	N. Wilmington C. Co.	1	Seneca .....	11,169	7,185		3,221	763
234	Beatty Coal Co.....	1	Mascoutah ....	11,050	10,355			695
235	Kinmundy Coal Co....	1	Kinmundy ....	10,418	6,895		2,100	1,423
236	Atherton Coal Co.....	1	Muncie .....	10,280	5,000		5,000	280
237	James Walker.....	1	Mapleton .....	10,000	10,000			
238	Strait Coal Co.....	1	Pinckneyville ..	9,718	7,877		1,491	350
239	Etherly Coal Co.....	1	Etherly .....	9,300	8,620	480	200	
240	Atlas Coal Co.....	1	Galva .....	9,040	7,610		1,130	300
241	Louis Evans & Son...	1	Kangley .....	9,000	5,000		4,000	
242	Johnson Co-operative Coal Co.....	1	Fairbury .....	9,000		7,000	2,000	
243	J. Riley.....	1	Breeds .....	8,960	8,400			560
244	Putnam Coal Co.....	1	Cuba .....	8,640	8,000			640
245	Phoenix C. & M. Co..	1	Cornell.....	8,570	8,000		570	
246	Merideth Bros.....	1	Augusta .....	8,500	8,000		500	
247	Bunting Bros.....	1	Grape Creek ..	8,359	4,594		3,765	
248	Peter Grant & Son....	1	Peoria.....	8,039	6,629	910		500
249	Manchester Coal Co..	1	Petersburg....	8,000	5,000		2,725	275
250	T. M. Meeke Coal Co.	1	Marissa .....	7,860	7,540		120	200
251	Wyoming Coal Co....	1	Wyoming ....	7,800	5,000		2,200	600
252	Rippetoe & Rundle...	1	Colchester ..	7,593	7,593			
253	Benton Coal Co.....	1	Benton .....	7,000	5,777		373	850

Table 20—Concluded.

No. o operators.	NAME OF OPERATOR.	Number of mines.	Postoffice address—location of mine.	Total output, all grades.	DISTRIBUTION OF OUTPUT.			
					Tons loaded on cars at the mine for shipm't	Supplied to locomotives at mine chutes.	Sold to local trade.	Consumed and wasted at the mine.
254	Belleville & O'Fallon Mining Co.....	1	Belleville .....	6,660	5,760	.....	675	225
255	M. H. Wilson C. Co..	1	St. Johns .....	6,600	1,600	.....	5,000	.....
256	Joliet & Wilmington Coal Co.....	1	Braidwood.....	6,300	5,350	.....	250	700
257	M. Hampton.....	1	Carterville. ....	6,268	3,427	.....	.....	2,841
258	Browne Coal Co.....	1	Equality .....	5,672	5,276	.....	71	325
259	Docherty Bros.....	1	Boden.....	5,600	1,200	.....	4,200	200
260	Peoples' C. & M. Co..	1	Tice.....	5,554	4,947	.....	307	300
261	Volunteer Coal Co...	1	Coal Valley...	5,536	5,236	.....	.....	300
262	Salem Coal Co.....	1	Salem.....	5,173	1,254	.....	2,674	1,245
263	Edinburg Coal Co.*	1	Edinburg.....	5,037	.....	.....	4,135	902
264	Prairie Coal Co.....	1	Belleville .....	5,004	4,810	52	39	103
265	Watson & Higbee ....	1	Wyoming .....	4,960	1,373	.....	3,517	40
266	Miller Coal Co.....	1	Raymond.....	4,800	1,500	.....	2,800	500
267	Cusack & Edwards...	1	Edwards .....	4,760	4,760	.....	.....	.....
268	Burney & Co.....	1	Colchester....	4,582	4,582	.....	.....	.....
269	Schmidgall Coal Co..	1	Murphysboro.	4,000	320	.....	2,980	700
270	Jones & Hayburn.....	1	Viola .....	3,840	400	.....	3,400	40
271	Alfred Lilliman.....	1	Cable.....	3,434	2,500	.....	634	300
272	Century Coal Co.....	1	Tower Hill...	3,394	634	.....	1,937	823
273	J. A. Runnell .....	1	Tilton.....	3,108	3,108	.....	.....	.....
274	Cora Coal Co.....	1	Andrews.....	2,555	1,958	.....	377	220
275	Marshall & Haar.....	1	Streator .....	2,100	1,000	.....	1,100	.....
276	Briar Bluff Coal Co..	1	Briar Bluff....	1,524	1,524	.....	.....	.....
277	Geo. H. Haskins.....	1	Grape Creek..	989	210	.....	779	.....
278	Cons. C. & Iron Co...	1	Reddick .....	700	350	.....	.....	350
279	Farmers' Fuel Co.....	1	Streator.....	566	100	.....	466	.....
	Totals.....	397	.....	35,956,543	31,667,073	1,172,177	1,396,018	1,721,245

\* No report of tons shipped.





Table 21—Continued.

TOWN OR POSTOFFICE.	Number of mines.	TOWN OR POSTOFFICE.	Number of mines.
Grape Creek .....	5	New Baden .....	1
Granville .....	1	Niantic .....	1
Greenridge .....	1	Norris .....	1
Greenview .....	1	Oakwood .....	3
Hallidayboro .....	1	Odin .....	1
Harrisburg .....	1	O'Fallon .....	6
Herrin .....	8	Oglesby .....	1
Hillsboro .....	2	Paisley .....	1
Himrod .....	1	Pana .....	3
Hornsby .....	1	Pawnee .....	1
Johnson City .....	3	Pekin .....	1
Kangley .....	1	Peoria .....	16
Kelleyville .....	1	Percy .....	1
Kewanee .....	1	Peru .....	2
Keys .....	1	Petersburg .....	3
Kinmundy .....	1	Pinckneyville .....	2
Ladd .....	1	Pleasant Plains .....	1
LaSalle .....	5	Raymond .....	1
Lebanon .....	1	Reddick .....	1
Ledford .....	2	Rentchler .....	1
Lenzburg .....	1	Riverton .....	2
Lincoln .....	3	Roanoke .....	1
Litchfield .....	1	Rutland .....	1
Mapleton .....	4	Salem .....	1
Marquette .....	1	Sandoval .....	2
Marion .....	6	St. David .....	2
Marissa .....	7	St. Johns .....	2
Mascoutah .....	5	Selbytown .....	1
Middletown .....	1	Seneca .....	1
Minonk .....	1	Sherman .....	1
Missionfields .....	1	Sherrard .....	1
Monmouth .....	1	Sparland .....	1
Mt. Olive .....	4	Sparta .....	3
Mt. Pulaski .....	1	Spaulding .....	1
Moweaqua .....	1	Springfield .....	13
Muncie .....	1	Spring Valley .....	5
Murphysboro .....	6	Sorento .....	1
Nashville .....	1	South Wilmington .....	2

Table 21—Concluded.

TOWN OR POSTOFFICE.	Number of mines.	TOWN OR POSTOFFICE.	Number of mines.
Staunton .....	7	Troy .....	2
Streator .....	8	Viola .....	1
Sunfield .....	2	Virden .....	6
Tallula .....	1	Wanlock .....	2
Tamaroa .....	1	Wenona .....	1
Taylorville .....	2	West Frankfort .....	1
Thayer .....	1	Westville .....	6
Tice .....	1	Willisville .....	2
Tilden .....	3	Worden .....	2
Tilton .....	1	Wyoming .....	2
Toluca .....	1	Yates City .....	1
Tower Hill .....	1	Ziegler .....	1
Trenton .....	3		

## GRADED OUTPUT FOR THE YEAR.

The production of the coal mines of the State, by districts, which is subdivided into different grades of coal, known to the trade, is shown in the following table:

TABLE 22—Output of the Shipping and Local Mines of the State with Tons of the Different Grades of Coal by Districts—1905.

DISTRICTS.	Total output tons.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Mine run	Lump.	Egg.	Nut.	Pea or scre'n'gs	Slack or waste.
First .....	3,252,282	304,356	1,821,149	339,780	66,349	631,586	89,062
Second .....	2,942,229	262,953	2,038,825	25,660	14,390	524,313	76,088
Third .....	2,774,498	580,447	1,289,164	228,639	150,467	376,569	149,212
Fourth .....	4,303,295	2,639,164	978,614	51,471	193,142	314,155	126,749
Fifth .....	7,329,825	1,650,109	3,540,991	182,132	271,313	1,550,711	134,569
Sixth .....	8,392,443	1,503,788	4,494,302	268,567	399,094	1,421,287	305,405
Seventh .....	6,961,971	1,843,385	1,934,729	619,862	933,591	1,401,135	229,269
Shipping mines .....	35,956,543	8,784,202	16,097,774	1,716,111	2,028,346	6,219,756	1,110,354
Local mines .....	1,226,831	464,356	721,547	108	7,806	27,755	5,259
Totals .....	37,183,374	9,248,558	16,819,321	1,716,219	2,036,152	6,247,511	1,115,613

The tonnage of the shipping mines has an increase of 177,926 tons over last year, while the output of the local mines shows a decrease of 71,549 tons.

The percentages of the different grades of coal is presented by districts in the table following:

TABLE 23—*Percentages of the Total Output of the Different Grades of Coal, Shipping and Local Mines, by Districts.*

DISTRICT.	Percent of total output.	PERCENTAGES OF THE DIFFERENT GRADES OF COAL.					
		Mine run	Lump.	Egg.	Nut.	Pea or scre'n'gs.	Slack or waste.
First.....	9.04	9.36	56.00	10.42	2.04	19.43	2.75
Second.....	8.18	8.94	69.30	.87	.49	17.82	2.58
Third.....	7.72	20.92	46.46	8.24	5.43	13.57	5.38
Fourth.....	11.97	61.33	22.74	1.20	4.49	7.30	2.94
Fifth.....	20.39	22.51	48.31	2.48	3.70	21.16	1.84
Sixth.....	23.34	17.92	53.55	3.20	4.76	16.94	3.63
Seventh.....	19.36	26.48	27.79	8.90	13.41	20.13	3.29
Shipping mines.....	100.00	24.43	44.77	4.77	5.64	17.30	3.09
Local mines.....	100.00	37.85	58.80	.01	.64	2.26	.44

The grades of mine-run and lump coal show a decrease in tonnage from last year; all of the other grades, excepting slack, show an increase. The graded tonnage of all the mines in the State is shown in the following table, for six years, with the percentages of each grade for the same period:

TABLE 24—*Total Output of the Different Grades of Coal, All Mines, for Six Years, with Percentages.*

YEAR.	Total output—tons.	TONS OF THE DIFFERENT GRADES OF COAL.					
		Mine run.	Lump.	Egg.	Nut.	Pea or screenings	Slack or waste.
1900.....	25,153,929	5,554,627	13,927,899	495,637	1,323,582	2,811,520	1,040,874
1901.....	26,635,319	6,882,740	13,321,124	486,596	1,217,127	3,667,591	1,060,141
1902.....	30,021,300	6,986,204	15,041,673	630,985	1,586,456	4,604,232	1,121,750
1903.....	34,955,400	10,373,098	15,874,509	995,163	1,775,704	4,540,431	1,416,495
1904.....	37,077,897	10,627,904	16,838,010	1,014,700	1,602,283	5,751,570	1,193,330
1905.....	37,183,374	9,248,558	16,819,321	1,716,219	2,086,152	6,247,511	1,115,613
Percentages.							
1900.....		22.08	55.37	1.97	5.26	11.18	4.14
1901.....		25.84	50.01	1.83	4.57	13.77	3.98
1902.....		23.27	50.10	2.27	5.28	15.34	3.74
1903.....		29.70	45.41	2.84	5.02	12.98	4.05
1904.....		28.66	45.55	2.74	4.32	15.51	3.23
1905.....		24.87	45.23	4.62	5.48	16.80	3.00

The grade of mine-run coal shows a decrease this year of about 4 per cent; lump coal is nearly the same as last year; egg, nut and pea grades show an increase, and the largest percentage of any of the six years; slack and waste coal show an even 3 per cent of the entire output.

The total tonnage of all the mines of the State is shown in the next table for three years by districts, with the tons of gain or loss, also the percentages of gain or loss for the same years:

TABLE 25—*Output for the Years 1903, 1904 and 1905. Compared by Districts.*

DISTRICT.	TOTAL OUTPUT—TONS.			GAIN (+) OR LOSS (—).		PERCENTAGES OF GAIN(+) OR LOSS(—)	
	1903.	1904.	1905.	1904 over 1903.	1905 over 1904.	1904 over 1903.	1905 over 1904.
First.....	3,748,651	3,450,315	3,396,807	— 298,336	— 53,508	— 7.93	— 1.55
Second.....	3,245,781	3,322,490	3,212,728	+ 76,709	— 109,762	+ 2.36	— 3.30
Third.....	2,708,350	3,058,414	3,167,379	+ 350,064	+ 48,965	+ 12.92	+ 1.60
Fourth.....	4,772,284	5,142,786	4,477,632	+ 370,502	— 665,154	+ 7.76	— 12.93
Fifth.....	7,070,903	7,280,287	7,435,952	+ 209,384	+ 155,665	+ 2.96	+ 2.14
Sixth.....	7,734,831	8,634,726	8,506,929	+ 899,895	— 127,797	+ 11.63	— 1.43
Seventh.....	5,674,600	6,188,879	7,045,947	+ 514,279	+ 857,068	+ 9.06	+ 13.85
The State..	34,955,400	37,077,897	37,183,374	+ 2,122,497	+ 105,477	+ 6.07	+ .28

It will be noticed that the increase in tonnage, this year over last, is very small, being only a little over one quarter of 1 per cent; by districts, the third, fifth and seventh show an increase, the seventh being much the largest; the other districts all show a decrease, the largest being in the fourth district.

#### MINES, MEN AND TONS.

The following table presents the number of counties, mines, men and tons, for 24 years: also the percentages of lump, and other grades of coal.

TABLE 26—*Output of the State for 24 Years and the Mines and Men Producing the Same.*

YEAR.	NUMBER OF—				TONS OF—		PERCENTAGE OF—	
	Coun- ties.	Mines.	Men.	Tons.	Lump.	Other grades.	Lump.	Other grades.
1882.....	43	704	20,290	11,017,069	9,115,653	1,901,506	.....	.....
1883.....	47	639	28,039	12,123,456	10,030,991	2,092,465	.....	.....
1884.....	49	741	25,575	12,208,075	10,101,005	2,107,070	.....	.....
1885.....	50	778	25,946	11,834,459	9,791,874	2,402,585	.....	.....
1886.....	50	787	25,846	11,175,241	9,246,435	1,928,806	.....	.....
1887.....	49	801	26,804	12,423,066	10,278,890	2,144,176	.....	.....
1888.....	50	822	29,410	14,328,181	11,855,188	2,472,993	.....	.....
1889.....	49	854	30,076	14,017,298	11,597,963	2,419,335	.....	.....
1890.....	57	936	28,574	15,274,727	12,638,364	2,636,363	82.74	17.26
1891.....	57	918	32,951	15,660,698	12,960,224	2,700,474	82.76	17.24
1892.....	55	839	33,632	17,862,276	14,730,963	3,131,313	82.47	17.53
1893.....	56	788	35,390	19,949,564	16,112,899	3,836,665	80.77	19.23
1894.....	56	836	38,477	17,113,576	13,867,284	3,246,292	81.02	18.98
1895.....	54	874	38,630	17,785,864	14,045,962	3,689,902	79.25	20.75
1896.....	51	901	37,057	19,786,626	14,210,024	5,576,602	71.86	28.14
1897.....	50	853	33,788	20,072,758	14,672,241	5,400,517	73.10	26.90
1898.....	52	881	35,026	18,599,299	14,208,795	4,390,504	76.39	23.61
1899.....	52	889	36,991	23,434,445	17,427,598	6,006,847	74.37	25.63
1900.....	52	920	39,384	25,153,929	13,927,899	11,226,030	44.63	55.37
1901.....	53	915	44,143	26,635,319	13,321,124	13,314,195	50.01	49.99
1902.....	54	915	46,005	30,021,300	15,041,673	14,979,627	50.10	49.90
1903.....	53	933	49,814	34,955,400	15,874,509	19,080,891	45.41	54.59
1904.....	54	932	54,774	37,077,897	16,888,010	20,189,887	45.55	54.45
1905.....	56	990	59,290	37,183,374	16,819,321	20,364,053	45.23	54.77

Here is shown the leading information of the coal industry of the State for a series of 24 years. The percentages of lump, and other grades of coal are shown for all the years since 1889, a period of 16 years. Beginning with the year 1900, the several different grades of coal produced, and put on the market, have been shown separately, which accounts for the decreased percentages of lump coal for the past six years. The percentages of each of the different grades of coal produced is shown in table 22 for the six years.

The gain or loss of men employed and tons produced, is shown by percentages in the following table for a series of 24 years:

TABLE 27—*Total Number of Men and Total Tons Produced with Percentages of Gain or Loss for Twenty-four Years.*

YEAR.	Men.	Total output, tons.	PERCENTAGE OF MEN.		PERCENTAGE OF TONS.	
			Gain.	Loss.	Gain.	Loss.
1882.....	20,290	11,017,069				
1883.....	23,939	12,123,456	17.98		10.04	
1884.....	25,575	12,208,075	6.83		.70	
1885.....	25,946	11,834,459	1.35			3.06
1886.....	25,846	11,175,241		.39		5.57
1887.....	26,804	12,423,066	3.71		11.17	
1888.....	29,410	14,328,181	9.72		15.34	
1889.....	30,076	14,017,298	2.26			2.17
1890.....	28,574	15,274,727		4.99	8.97	
1891.....	32,951	15,660,698	15.32		3.53	
1892.....	33,632	17,862,276	2.07		14.06	
1893.....	35,390	19,949,564	5.23		11.69	
1894.....	38,447	17,113,576	8.72			14.22
1895.....	38,630	17,735,864	.40		3.64	
1896.....	37,057	19,786,626		4.07	11.56	
1897.....	33,788	20,072,758		8.82	1.45	
1898.....	35,026	18,599,299	3.66			7.34
1899.....	36,991	23,434,445	5.61		26.00	
1900.....	39,384	25,153,929	6.47		7.34	
1901.....	44,143	26,635,319	12.08		5.89	
1902.....	46,005	30,021,300	4.22		12.71	
1903.....	49,814	34,955,400	8.28		16.44	
1904.....	54,774	37,077,897	9.96		6.07	
1905.....	59,230	37,183,374	8.14		.28	

A gain is shown in the number of men employed from year to year for the past eight years, and a gain in the tonnage for the past seven years. For the 24 years, only four years show a decrease in the number of men employed, and for five years a decrease in tonnage.

The proportion of the total tons of coal produced in each district, during the past 15 years, is shown by percentages in the following table:

TABLE 28—*Percentages of the Tonnage of Total Output of the State, Produced by Each District, for a Series of Fifteen years.*

YEAR.	DISTRICTS.						
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.
1891.....	19.69	9.20	17.84	28.27	25.00	.....	.....
1892.....	19.36	9.70	18.26	28.65	24.03	.....	.....
1893.....	17.02	10.03	17.03	28.99	26.93	.....	.....
1894.....	15.69	9.95	17.99	30.23	26.14	.....	.....
1895.....	15.42	11.25	16.65	31.65	25.08	.....	.....
1896.....	15.34	13.60	3.18	14.17	23.70	19.08	10.93
1897.....	14.64	13.64	2.87	14.53	24.95	17.73	11.64
1898.....	11.88	13.71	3.89	13.83	21.10	18.60	16.99
1899.....	15.08	14.19	3.11	14.33	20.53	18.28	14.48
1900.....	14.72	9.75	7.94	14.05	19.15	20.81	13.58
1901.....	13.40	10.40	7.45	12.22	20.33	21.76	14.44
1902.....	12.42	10.34	8.04	13.12	20.70	20.79	14.59
1903.....	10.73	9.29	7.75	13.65	20.22	22.13	16.23
1904.....	9.31	8.96	8.25	13.87	19.63	23.29	16.69
1905.....	9.14	8.64	8.36	12.04	20.00	22.87	18.95

Relatively there is a very slight variation to be observed in the tonnage contributed by each district from year to year. However, it will be seen that the fifth, sixth and seventh districts have furnished 62 per cent of the total product for this year.

#### OUTPUT BY SIX MONTHS PERIODS.

The schedule for this year, filled by the operators, of shipping mines, included an inquiry as to the tonnage or output of each mine for the six months ended December 31, 1904, and June 30, 1905. The returns resulting from this inquiry come from 377 of the 397 shipping mines, and accounting for 34,953,789 tons or 97.21 per cent of the total output of these mines, and 94.54 per cent of the total output of the State.

The presentation follows:

TABLE 29—*Output of Shipping Mines by Six-month Periods, ending Dec. 31, 1904, and June 30, 1905.*

## FIRST DISTRICT.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
1	Chi., Wil. & Ver. C. Co., No. 1..	S. Wilmington	221,870	122,883	96,987	55.39	44.61
2	Chi., Wil. & Ver. C. Co., No. 2..	do .....	190,123	103,296	86,837	54.33	45.67
3	Braceville Coal Co., No. 5.....	Braceville .....	164,224	79,729	84,495	48.55	51.45
4	Big Four Coal Co., No. 5.....	Carbon Hill ..	134,014	76,395	57,619	57.01	42.99
5	Big Four Coal Co., No. 3.....	do .....	122,211	73,076	49,135	59.79	40.21
6	Wilm. Star Min. Co., No. 6.....	Coal City.....	96,434	60,960	35,474	63.21	36.79
7	Braceville Coal Co., No. 6.....	Braceville .....	91,395	39,925	51,470	43.68	56.32
8	Wilm. C. M. & Mfg. Co., No. 4.....	Diamond .....	86,308	48,601	37,707	56.31	43.69
9	Big Four Wilm. Coal Co., No. 6.....	Carbon Hill ..	82,368	41,378	40,990	50.24	49.76
10	Wilm. Star Mining Co., No. 5.....	Coal City.....	64,617	39,709	24,908	61.44	38.56
11	Wilm. Star Mining Co., No. 7.....	do .....	30,818	5,648	25,170	18.33	81.67
12	Wilm. C. M. & Mfg. Co., No. 5.....	Diamond .....	14,865	14,865	.....	100.00	.....
13	Cons. Coal & Iron Co., B.....	Reddick .....	700	.....	700	.....	100.00
14	LaSalle Co. Car. Coal Co., No. 1.....	LaSalle .....	178,681	103,024	75,657	57.66	42.34
15	LaSalle Co. Car. C. Co., Union.....	do .....	162,602	88,042	74,560	54.15	45.85
16	Oglesby Coal Co., No. 1.....	Oglesby .....	148,552	75,997	72,555	51.16	48.84
17	LaSalle Co. C. C. Co., LaSalle.....	LaSalle .....	147,730	71,793	75,937	48.60	51.30
18	LaSalle Co. C. C. Co., Rockwell.....	do .....	137,665	68,664	69,001	49.88	50.12
19	Acme Coal Co., Acme.....	Streator .....	137,046	42,473	94,573	30.99	69.01
20	Star Coal Co., No. 5.....	do .....	136,687	64,426	72,261	47.13	52.87
21	Chi., Wil. & Ver. C. Co., No. 1.....	do .....	127,966	65,609	62,357	51.27	48.73
22	Matheison & Hegeler Zinc Co.....	LaSalle .....	101,685	54,793	46,892	53.89	46.11
23	Illinois Zinc Co., No. 1.....	Peru .....	77,558	36,396	41,162	46.93	53.07
24	Chi., Wil. & Ver. C. Co., No. 2.....	Streator .....	72,847	29,965	43,882	39.76	60.24
25	James Cahill Estate, No. 1.....	Peru .....	69,600	33,700	35,900	48.42	51.58
26	Mrs. E. Hakes, No. 2.....	Rutland.....	62,338	30,941	31,397	49.63	50.37
27	Home Coal Co., No. 1.....	Streator .....	31,854	15,404	16,450	48.36	51.64
28	Star Coal Co., No. 4 .....	do .....	19,463	4,791	14,672	24.62	75.38



Table 29--Continued.

## FIRST DISTRICT--Concluded.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended--		Percentage of Total Output Produced for Six Months Ended--	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
29	N. Wilmington Coal Co., No. 1	Seneca .....	11,169	5,301	5,868	47.46	52.54
30	Louis Evans & Son, No. 1.....	Kangley .....	9,000	4,000	5,000	44.44	55.56
31	Farmers' Fuel Co., No. 1.....	Streator .....	566	300	266	53.00	47.00
32	Cardiff Coal Co., No. 2.....	Cardiff .....	177,529	84,048	93,481	47.34	52.66
33	Johnson Coop. Coal Co., No. 1	Fairbury .....	9,000	4,000	5,000	44.44	55.56
34	Phoenix C. & M. Co., No. 1....	Cornell .....	8,570	.....	8,570	.....	100.00
35	Marshall & Haar, No. 1.....	Streator .....	2,100	1,200	900	57.14	42.86
36	Murphy, Keenan & Co., No. 3	Braidwood....	58,043	31,138	26,905	53.65	46.35
37	Wilm. C. M. & Mfg. Co., No. 6	Diamond .....	29,412	.....	29,412	.....	100.00
38	Rixson Coal Co., No. 1.....	Braceville ....	28,372	18,479	9,893	65.13	34.87
39	Joliet-Wilm. Coal Co., No. 1 ..	Braidwood....	6,300	.....	6,300	.....	100.00
	First District .....	.....	3,232,282	1,639,939	1,612,343	50.42	49.58

## SECOND DISTRICT.

1	Ill. Third Vein Coal Co. No. 1..	Ladd .....	271,068	146,321	124,767	53.98	46.02
2	Spring Valley Coal Co. No. 2..	Spring Valley.	260,940	158,190	102,750	60.62	39.38
3	Spring Valley Coal Co. No. 4...	do .....	245,658	127,208	118,450	51.78	48.22
4	Spring Valley Coal Co. No. 3...	do .....	242,340	158,446	83,894	65.38	34.62
5	Marquette Third V. C. C. No. 1	Marquette....	237,323	125,000	112,323	52.67	47.33
6	Spring Valley Coal Co. No. 1...	Spring Valley.	235,573	145,030	90,543	61.56	38.44
7	Spring Valley Coal Co. No. 5...	do .....	229,141	154,967	74,174	67.63	32.37
8	Kewanee Coal Co. No. 1.....	Kewanee .....	73,054	35,296	37,758	48.31	51.69
9	Atlas Coal Co. No. 16.....	Galva .....	9,040	4,072	4,968	45.04	54.96
10	Yates City Coal Co. No. 1.....	Yates City....	14,500	6,000	8,500	41.39	58.61
11	Etherly Coal Co. No. 3.....	Etherley .....	9,300	2,100	7,200	22.58	77.42
12	Devlin Coal Co. No. 1 .....	Toluca .....	379,974	183,763	196,211	48.36	51.64
13	Wenona Coal Co. No. 1.....	Wenona .....	110,175	61,432	48,743	55.76	44.24
14	Marquette Third Vein Coal Co.	Sparland .....	13,627	6,842	6,785	50.21	49.79
15	Empire Coal Co. No. 3.....	Gilchrist .....	174,780	88,780	86,000	50.80	49.20
16	Coal Valley Mining Co. No. 2..	Sherrard.....	134,618	66,480	68,138	49.38	50.62

Table 29—Continued.

## SECOND DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904	June 30, 1905
17	Alden Coal Co. No. 4.....	Wanlock.....	69,168	39,907	29,261	57.70	42.30
18	Alden Coal Co. No. 2.....	do.....	69,078	32,291	36,787	46.75	53.25
19	Coal Valley Mining Co. No. 1..	Cable.....	57,674	29,746	27,928	51.58	48.42
20	B. B. Peterson.....	do.....	11,800	6,330	5,470	53.64	46.36
21	Docherty Bros.....	Boden.....	5,600	2,480	3,120	44.29	55.71
22	Jones & Hayburn.....	Viola.....	3,840	2,260	1,580	58.85	41.15
23	Alfred Lilliman.....	Cable.....	3,434	2,734	700	79.62	20.38
24	St. Paul Coal Co. No. 1.....	Granville.....	42,964	8,245	34,719	19.19	80.81
25	Silvis Mining Co. No. 2.....	Carbon Cliff..	17,720	9,740	7,980	54.97	45.03
26	Volunteer Coal Co.....	Coal Valley...	5,536	1,711	3,825	30.91	69.09
27	Wyoming Coal Co. No. 1.....	Wyoming.....	7,800	4,600	3,200	58.97	41.03
28	Watson & Higbee.....	do.....	4,960	3,440	1,520	69.15	30.85
	Second District.....		2,940,705	1,613,411	1,327,294	54.86	45.14

NOTE—One mine with an output of 1,524 tons not reported.

## THIRD DISTRICT.

1	Monmouth Coal Co. No. 1.....	Brereton.....	214,123	103,986	110,137	48.56	51.44
2	Whitebreast Fuel Co. of Ill. (E)	Dunfermline..	158,500	98,078	60,422	53.72	41.28
3	Big Creek Coal Co. No. 2.....	St. David.....	132,982	21,525	111,457	16.19	83.81
4	Norris Coal Mining Co.....	Norris.....	106,000	45,000	61,000	42.45	57.55
5	Applegate & Lewis.....	Cuba.....	89,000	46,000	43,000	51.69	48.31
6	Newsam Bros.....	Peoria.....	66,554	29,582	36,972	44.45	55.55
7	Whitebreast Fuel Co. of Ill.....	Dunfermline..	63,710	33,681	30,029	52.87	47.13
8	East Cuba Coal Co.....	Cuba.....	61,240	41,040	20,200	67.02	32.98
9	Big Creek Coal Co. No. 1.....	St. David.....	40,808	25,713	15,095	63.01	36.99
10	Foley Coal Co. No. 1.....	Canton.....	40,225	23,403	16,822	58.18	41.82
11	Canton Union Coal Co.....	do.....	31,400	18,068	13,332	57.54	42.46
12	Spoon River Coal Co.....	Galesburg.....	25,064	11,513	13,551	45.93	54.07
13	Farmington Coal Co.....	Farmington..	14,449	7,610	6,839	52.67	47.33
14	Monarch Coal Mining Co.....	Monmouth....	12,402	7,026	5,376	56.65	43.35

Table 29—Continued.

## THIRD DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Location of Mines.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
15	Essex & Fritz Coal Co. No. 1...	Galesburg....	11,200	6,000	5,200	53.57	46.43
16	J. Riley .....	Breeds .....	8,960	6,340	2,620	70.76	29.24
17	Putman Coal Co.....	Cuba .....	8,640	5,240	3,400	60.65	39.35
18	Essex & Fritz Coal Co. No. 2...	Galesburg ....	8,400	3,180	5,220	37.86	62.14
19	Greenview C. & M. Co.....	Greenview....	103,487	61,453	42,034	59.38	40.62
20	Athens Mining Co.....	Athens.....	92,682	49,943	42,739	53.89	46.11
21	Wabash Coal Co. No. 2.....	do .....	72,470	40,687	31,783	56.14	43.86
22	Middletown Coal Co. No. 1.....	Middletown...	44,444	23,476	20,968	52.82	47.18
23	Tallula Coal Co.....	Tallula.....	40,181	20,896	19,283	52.01	47.99
24	South Mountain Coal Co.....	Petersburg....	37,503	21,561	15,942	57.49	42.51
25	Petersburg Coal Mining Co.....	do .....	31,472	15,537	15,935	49.37	50.63
26	Manchester Coal Co.....	do .....	8,000	5,000	3,000	62.50	37.50
27	People Coal M. Co.....	do .....	5,554	581	4,973	10.46	89.54
28	Clark Coal & Coke Co., "A"....	Peoria.....	125,120	72,366	52,754	57.84	42.16
29	Wolschlag Coöp C. Co.....	do .....	84,900	41,292	43,608	48.64	51.36
30	Newsaw Bros.....	do .....	82,989	42,765	40,224	51.53	48.47
31	Scholl Bros. No. 3 .....	do .....	70,187	38,867	31,320	55.38	44.62
32	Collier Coöp Coal Co.....	Bartonville....	56,200	32,100	24,100	57.12	42.88
33	Newsaw Bros.....	Peoria.....	58,339	27,884	30,455	47.80	52.20
34	Howorth & Taylor.....	Edwards .....	54,066	30,081	23,985	55.64	44.36
35	Vickery Bros.....	Peoria.....	41,000	29,000	12,000	70.73	29.27
36	Rentz Bros.....	Kraumm .....	26,000	14,000	12,000	53.85	46.15
37	Central Coal & Coke Co.....	Elmwood.....	32,642	22,458	10,184	68.80	31.20
38	Clark Coal & Coke Co., "B"....	Peoria.....	31,333	5,905	25,428	18.85	81.15
39	Isaac Wantling & Son.....	do .....	29,000	16,000	13,000	55.17	44.83
40	W. E. Foley.....	Mapleton.....	21,887	14,706	7,181	67.19	32.81
41	German Coal Co.....	do .....	14,312	7,772	6,540	54.30	45.70
42	Orchard Mines.....	do .....	9,977	6,975	3,002	69.91	30.09
43	Jas. Walker.....	do .....	10,000	10,000	.....	100.00	.....

Table 29—Continued.

THIRD DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
44	Peter Grant & Son.....	Peoria .....	8,088	4,410	3,629	54.86	45.14
45	Newsam Bros.....	do .....	7,527	7,373	154	97.95	2.05
46	Cusack & Edwards.....	Edwards .....	4,760	2,656	2,104	55.80	44.20
47	Tazewell Coal Co.....	Pekin.....	71,863	32,214	39,649	44.83	55.17
48	Pheenix Coal Co. No. 1.....	Peoria .....	57,485	28,586	28,899	49.75	50.25
49	Erie Star Coal Co.....	do .....	22,000	14,000	8,000	63.64	36.36
50	Lake Erie Coal & M. Co.....	do .....	18,800	12,800	6,000	68.08	31.91
Third District.....			2,467,876	1,281,341	1,186,535	51.92	48.08

NOTE—Five mines with an output of 306,622 tons, not reported.

## FOURTH DISTRICT.

1	Springfield C. M. Co., No. 6...	Taylorville ...	229,060	92,725	136,335	40.48	59.52
2	Christian County Coal Co .....	do .....	147,299	67,846	79,453	46.06	53.94
3	Penwell Coal Mining Co.....	Pana .....	134,502	74,134	60,368	55.12	44.88
4	Newbent Coal Co .....	do .....	117,335	64,585	52,750	55.04	44.96
5	Pana Coal Co., No. 1.....	do .....	118,959	56,420	62,539	47.43	52.57
6	Assumption Coal & Mining Co.	Assumption ..	105,698	57,301	48,397	54.21	45.79
7	Edinburg Coal Co., No. 1 .....	Edinburg .....	5,037	2,500	2,537	49.63	50.37
8	Latham Coal Co., No. 1 .....	Lincoln.....	229,966	126,253	103,713	54.90	45.10
9	Citizens' Coal Mining Co., No. 1.	do .....	108,335	59,998	48,337	55.39	44.61
10	Lincoln Coal Co., No. 1 .....	do .....	33,519	8,820	24,699	26.31	73.69
11	Home Coal Co., No. 1.....	Mt. Pulaski...	12,468	7,120	5,348	57.11	42.89
12	Mfrs. & Consumers C. Co., No. 1	Decatur .....	71,479	38,106	33,373	53.31	46.69
13	Decatur Coal Co., No. 2 .....	do .....	42,940	30,600	12,340	71.26	28.74
14	Decatur Coal Co., Niantic.....	do .....	36,060	24,240	11,820	67.22	32.78
15	Decatur Coal Co., No. 1 .....	do .....	32,391	20,639	11,752	63.72	36.28
16	Blue Mound Coal Co., No. 1...	Blue Mound..	13,758	6,080	7,678	44.19	55.81
17	McLean County Coal Co., No. 1	Bloomington.	129,000	70,000	59,000	54.28	45.74
18	Colfax Coöp. Coal Co., No. 1 ..	Colfax .....	24,914	13,071	11,843	52.46	47.54
19	Ill. Coal M. & Coke Co., No. 1.	Chenoa .....	21,096	10,000	11,096	47.40	52.60

Table 29—Continued.

## FOURTH DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
20	Moweaqua C. M. Co., No. 1....	Moweaqua....	102,534	60,620	41,914	59.12	40.88
21	Century Coal Co., No. 1.....	Tower Hill...	3,394	.....	3,394	.....	100.00
22	Dering Coal Co., No. 1.....	Westville.....	334,941	144,958	189,983	43.28	56.72
23	Kelley Coal Co., No. 4.....	.do.....	301,586	165,326	136,260	54.82	45.18
24	Kelley Coal Co., No. 3.....	.do.....	273,592	158,905	114,687	58.08	41.92
25	Kelley Coal Co., Pawnee.....	Grape Creek..	262,694	140,301	122,393	53.41	46.59
26	Kelley Coal Co., No. 2.....	Kelleyville...	243,002	127,141	115,861	52.32	47.68
27	Dering Coal Co., No. 2.....	Westville...	212,225	63,755	148,470	30.04	69.96
28	Kelley Coal Co., No. 5.....	Grape Creek..	209,780	114,673	95,107	54.66	45.34
29	Kelley Coal Co., Himrod.....	Himrod.....	190,777	97,794	92,983	51.26	48.74
30	Electric Coal Co., Electric.....	Danville.....	105,104	50,407	54,697	47.96	52.04
31	Chicago Collieries Co., No. 10..	Catlin.....	74,162	33,106	41,056	44.64	55.36
32	Consolidated Coal Co.....	Fairmount....	69,056	35,476	33,580	51.37	48.63
33	Economy Coal Co.....	Danville.....	66,769	35,678	31,091	53.43	46.57
34	E. S. Gray Coal Co.....	Oakwood.....	40,000	20,000	20,000	50.00	50.00
35	Oakwood Coal Co.....	.do.....	20,000	8,000	12,000	40.00	60.00
36	Saltfork Coal Co.....	Missionfields.	16,989	6,989	10,000	41.14	58.86
37	John O'Connell Coal Co.....	Grape Creek..	16,959	6,959	10,000	41.03	58.97
38	Atherton Coal Co., No. 1.....	Muncie.....	10,280	7,280	3,000	70.82	29.18
39	Bunting Bros., No. 1.....	Grape Creek..	8,359	4,856	3,503	58.09	41.91
40	Roanoke C. & M. Co., No. 1....	Roanoke.....	102,395	48,673	53,722	47.53	52.47
41	Minonk Coal Co., No. 2.....	Minonk.....	16,284	1,860	14,424	11.42	88.58
	Fourth district.....	.....	4,294,698	2,163,195	2,131,503	50.37	49.63

NOTE—Four mines with an output of 8,597 tons not reported.

## FIFTH DISTRICT.

1	Illinois Collieries Co. No. 1....	Virden.....	340,736	155,583	185,153	45.66	54.34
2	Superior Coal Co. No. 1.....	Gillespie.....	282,711	92,076	190,635	32.57	67.43
3	Consol. Coal Co. No. 6.....	Staunton.....	219,826	105,979	113,847	48.21	51.79
4	Consol. Coal Co. No. 10.....	Mt. Olive.....	210,837	112,408	98,429	53.32	46.68
5	Consol. Coal Co. No. 8.....	.do.....	204,161	107,488	96,673	52.65	47.35

Table 29—Continued.

## FIFTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
6	Superior Coal Co. No. 2.....	Gillespie.....	201,127	49,065	152,032	24.41	75.59
7	Madison Coal Co. No. 5.....	Mt. Olive.....	172,764	75,481	97,283	43.69	56.31
8	Consol. Coal Co. No. 7.....	Staunton.....	169,657	62,956	106,701	37.11	62.89
9	Royal Colliery .....	Viriden .....	160,563	85,291	75,272	53.12	46.88
10	Greenridge Mining Co.....	Greenridge....	140,229	68,646	71,583	48.95	51.05
11	Illinois Collieries Co. No. 5....	Viriden .....	123,735	38,149	85,586	30.83	69.17
12	Consol. Coal Co. No. 14.....	Staunton.....	119,435	31,664	87,771	26.51	73.49
13	Carlinville Coal Co.....	Carlinville....	56,850	26,610	30,240	46.81	53.19
14	Consol. Coal Co.....	Gillespie.....	37,928	23,955	13,973	63.16	36.84
15	Illinois Collieries Co. No. 4....	Viriden .....	34,637	27,168	7,469	78.44	21.56
16	Consol. Coal Co.....	Hornsby .....	28,539	19,015	9,524	66.63	33.37
17	Consol. Coal Co. No. 15.....	Mt. Olive.....	11,069		11,069		100.00
18	Dering Coal Co. No. 25.....	Paisley.....	161,315	71,193	90,120	44.13	55.87
19	Hillsboro Coal Co.....	Hillsboro.....	145,838	79,109	66,729	54.24	45.76
20	Clover Leaf Coal Co.....	Coffeen.....	72,398	35,084	37,314	48.46	51.54
21	Illinois Colliery Co. No. 7.....	Litchfield.....	71,597	37,465	34,132	52.33	47.67
22	Kortkamp Coal Co.....	Hillsboro.....	12,252	10,050	2,202	82.03	17.97
23	Miller Coal Co.....	Raymond.....	4,800	2,800	2,000	58.33	41.67
24	Chi., Wil. & Ver. Coal Co.....	Thayer.....	380,732	220,368	160,364	57.88	42.12
25	Madison Coal Co. No. 6.....	Divernon.....	341,082	175,201	165,881	51.37	48.63
26	Illinois Collieries Co. No. 8.....	Viriden .....	278,426	173,861	104,562	62.45	37.55
27	Springfield C. M. Co. No. 5.....	Springfield.....	239,920	106,793	133,127	44.51	55.49
28	Springfield C. M. Co. No. 2.....	Riverton.....	236,232	113,809	122,423	48.18	51.82
29	Victor Coal Co.....	Pawnee.....	228,896	100,328	128,568	43.83	56.17
30	Capital Cooperat. Coal Co.....	Springfield.....	195,877	102,323	93,554	52.24	47.76
31	Illinois Collieries Co. No. 2.....	Auburn.....	173,756	93,848	79,908	54.01	45.99
32	Springfield C. M. Co. No. 4.....	Springfield.....	166,640	87,692	78,948	52.62	47.38
33	Jefferson Coal Co.....	do.....	146,000	83,000	63,000	56.85	43.15
34	Springfield C. M. Co. No. 1.....	Riverton.....	142,278	67,313	74,965	47.31	52.69
35	Springfield C. M. Co. No. 3.....	Springfield.....	141,209	68,204	73,005	48.30	51.70
36	Woodside Coal Co.....	do.....	137,000	75,240	61,760	54.92	45.08

Table 29—Continued.

## FIFTH DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
37	Sangamon Coal Co.....	Springfield ...	136,320	76,212	60,108	55.90	44.10
38	West End Coal Co.....	do .....	134,031	74,880	59,151	55.87	44.13
39	Spaulding Coal Co. No. 2.....	Bissel.....	118,604	56,287	62,317	47.46	52.54
40	Peabody Mining Co.....	Sherman .....	109,335	31,429	77,906	28.75	71.25
41	Wabash Coal Co. No. 1.....	Dawson .....	107,044	58,586	48,458	54.73	45.27
42	Cantrall Cooperat. Coal Co.....	Cantrall.....	103,493	51,128	52,365	29.40	70.60
43	Citizens Coal Min. Co. "A"....	Springfield ...	103,038	44,547	58,491	43.23	56.77
44	Williamsville C. M. Co.....	Selbytown ...	98,919	44,110	52,809	45.51	54.49
45	Auburn & Alton C. Co.....	Auburn .....	89,576	41,394	48,182	46.21	53.79
46	Barclay C. & M. Co. ....	Barclay .....	88,262	42,975	45,287	48.69	51.31
47	Springfield Co-op. C. Co.....	Springfield ...	78,300	36,747	41,553	46.83	53.07
48	Tuxhorn Coal Co.....	Keys.....	77,314	34,411	42,903	44.51	55.49
49	Citizens C. M. Co., "B".....	Springfield ...	62,588	31,294	31,294	50.00	50.00
50	Chicago-Springfield C. Co.....	do .....	59,149	16,259	42,890	27.49	72.51
51	Wilmington & Springfield C. Co.	do .....	57,105	28,208	28,897	49.40	50.60
52	Spaulding Coal Co., No. 1.....	Spaulding ....	36,088	31,942	4,146	88.51	11.49
53	Black Diamond Coal Co.....	Auburn .....	33,233	592	32,641	1.78	98.22
54	Ill. Collieries Co., No. 3.....	Virden.....	23,396	17,908	5,488	76.54	23.46
55	Trutter Coal Co.....	Pleasant Pl'ns	22,425	13,859	8,566	61.80	38.20
56	Cora Coal Co.....	Andrews.....	2,555	377	2,178	14.76	85.24
	Fifth district.....	.....	7,329,825	3,518,393	3,811,432	48.00	52.00

## SIXTH DISTRICT.

1	Ill. Collieries Co.....	Sorento .....	129,815	74,073	55,742	57.06	42.94
2	Muren Coal & Ice Co., No. 2...	New Baden..	269,344	128,891	140,453	47.85	52.15
3	Breese-Trenton M. Co., No. 1..	Breese .....	250,912	115,188	135,724	45.91	54.09
4	Trenton Coal Co., No. 1.....	Trenton.....	141,962	85,177	56,785	60.00	40.00
5	Consolidated Coal Co.....	Breese .....	115,829	31,322	84,507	27.04	72.96
6	Consolidated Coal Co.....	Trenton .....	63,460	49,730	13,730	78.36	21.64
7	Germantown Coal Co., No. 4..	Germantown..	46,881	26,773	20,108	57.11	42.89

Table 29—Continued.

## SIXTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
8.	Breese-Trenton C. Co., No. 3.	Breese	16,438		16,438		100.00
9.	Donk Bros. C. & C. Co., No. 2.	Collinsville	329,135	156,663	172,472	47.60	52.40
10.	Mt. Olive & Sta't'n C. Co., No. 1	Staunton	323,371	107,790	215,581	33.33	66.67
11.	Donk Bros. C. & C. Co., No. 1.	Collinsville	315,091	205,208	109,888	65.12	34.88
12.	Donk Bros. C. & C. Co., No. 3.	Troy	290,793	172,610	118,183	59.36	40.64
13.	Lumaghi Coal Co., No. 2.	Collinsville	225,277	134,777	90,500	59.82	40.18
14.	Madison Coal Co., No. 4.	Glen Carbon	215,276	109,170	106,106	50.71	49.29
15.	Madison Coal Co., No. 2.	do	212,840	111,403	101,437	52.34	47.66
16.	Cons'lid't'd C. Co., Abbey No. 3	Collinsville	144,527	73,256	71,271	50.69	49.31
17.	Cons'lid't'd C. Co., Heintz Bluff	do	143,297	69,584	73,713	48.56	51.44
18.	Mt. Olive & Sta't'n C. Co., No. 2	Staunton	142,673	70,326	72,347	49.29	50.71
19.	Kerns-Donnewald C. Co., No. 1.	Worden	135,910	135,000	910	99.33	.67
20.	Edwardsville Coal Co., No. 3.	Edwardsville	114,966	56,779	58,187	49.39	50.61
21.	DeCamp Mining Co., No. 1.	Staunton	100,972	52,750	48,222	52.24	47.76
22.	Lumaghi Coal Co., No. 3.	Collinsville	98,641	59,185	39,456	60.00	40.00
23.	Henrietta Coal Co., No. 1.	Edwardsville	52,471	20,000	32,471	38.12	61.88
24.	New Staunton C. Co., No. 1.	Staunton	35,155		35,155		100.00
25.	Consolidated Coal Co.	Troy	32,262	23,786	8,476	73.73	26.27
26.	Consolidated Coal Co., No. 17.	Collinsville	4,607		4,607		100.00
27.	Pitt. & Davis M. & M. Co. No. 304	Centralia	440,143	205,972	234,171	46.80	53.20
28.	Centralia M. & Mfg. Co. No. 2	do	254,248	109,628	144,620	43.12	56.88
29.	Odin Coal Co. No. 1	Odin	188,821	106,749	82,072	56.53	43.47
30.	Sandoval C. & Min. Co. No. 1	Salem	161,737	121,300	49,437	75.00	25.00
31.	Sandoval C. & Min. Co. No. 2	do	25,810	9,341	16,469	36.19	63.81
32.	Kinmundy Coal Co. No. 1.	Kinmundy	10,418	6,044	4,374	58.01	41.99
33.	Salem Coal Co. No. 1	Salem	5,173	2,736	2,437	52.90	47.10
34.	St. L. & O'Fallon C. Co. No. 1.	E. St. Louis	389,308	233,584	155,724	60.00	40.00
35.	Muren Coal & Ice Co. No. 1.	Belleville	159,944	107,572	52,372	67.26	32.74
36.	Superior C. & Min. Co. No. 1.	do	158,116	83,183	74,933	52.61	47.39
37.	Royal Coal & Min. Co. No. 1.	do	149,550	89,730	59,820	60.00	40.00
38.	Joseph Taylor Coal Co.	O'Fallon	139,196	66,927	72,269	48.08	51.92



Table 29—Continued.

## SIXTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
39	Joseph Taylor C. Co., Taylor..	O'Fallon.....	131,364	59,904	71,460	45.60	54.40
40	Walnut Hill Coal Co.....	Belleville.....	129,798	78,911	50,887	60.80	39.20
41	Crown C. & Iron Co. No. 4.....	do.....	113,370	51,898	61,472	45.78	54.22
42	Glendale C. Min. Co. No. 1.....	do.....	83,609	50,118	33,491	59.94	40.06
43	Borders Coal Co. No. 1.....	Marissa.....	82,300	39,200	43,100	47.63	52.37
44	Avery Coal & Min. Co.....	Belleville.....	78,718	54,508	24,210	69.24	30.76
45	Kolb Coal Co. No. 1.....	Mascoutah.....	78,060	44,908	33,152	57.53	42.47
46	Eureka Coal Co. No. 1.....	Marissa.....	74,249	43,894	30,355	59.12	40.88
47	Oak Hill Coal Co. No. 1.....	Belleville.....	71,560	43,701	27,859	61.07	38.93
48	Marissa Coal & Min. Co.....	Marissa.....	69,778	34,695	35,083	49.72	50.28
49	Summit Coal Co. No. 1.....	Belleville.....	67,159	40,295	26,864	60.00	40.00
50	Consolidated C. Co. Gr. Mt.....	do.....	65,884	30,344	35,540	46.06	53.94
51	Valley Coal & Min. Co.....	Mascoutah.....	65,400	34,500	30,900	52.75	47.25
52	Joseph Taylor, St. Ellen.....	O'Fallon.....	65,167	30,692	34,475	47.10	52.90
53	Missouri & Illinois Coal Co.....	Belleville.....	57,761	39,332	18,429	68.09	31.91
54	Johnson Coal Co.....	Marissa.....	56,967	34,527	22,440	60.61	39.39
55	Kolb Coal Co.....	Mascoutah.....	55,751	35,614	20,137	63.88	36.12
56	Hippard Coal Co. No. 1.....	Belleville.....	53,323	26,661	26,662	50.00	50.00
57	Terre C. & Min. Co. No. 1.....	Lenzburg.....	50,863	26,275	24,588	51.66	48.34
58	Avery Coal & Min. Co.....	Freeburg.....	49,993	23,921	26,072	47.85	52.15
59	Hippard Coal Co.....	Belleville.....	49,219	29,532	19,687	60.00	40.00
60	Suburban Coal Co.....	do.....	44,254	26,592	17,662	60.09	39.91
61	Pittsburg Min. Co.....	do.....	43,750	21,875	21,875	50.00	50.00
62	Lenz C. & Min. Co. No. 2.....	do.....	43,403	19,047	24,356	43.88	56.12
63	Sunlight Coal Co.....	Freeburg.....	42,072	24,681	17,391	58.66	41.34
64	Mo. & Ill. Coal Co., Wilderman	Belleville.....	39,258	28,994	10,264	73.86	26.14
65	Fullerton Coal Co.....	do.....	36,800	28,400	8,400	77.17	22.83
66	Marissa Coal & Min. Co.....	Marissa.....	34,816	8,341	26,475	26.96	73.04
67	Lebanon C. & Min. Assn.....	Lebanon.....	34,040	22,694	11,346	66.67	33.33
68	Lake Superior Coal Co.....	Belleville.....	33,406	19,987	13,419	59.83	40.17
69	Highland Coal Co. No. 1.....	do.....	32,250	17,050	15,200	52.87	47.13

Table 29—Continued.

## SIXTH DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
70	Mo. & Ill. Coal Co .....	Belleville .....	29,148	23,775	5,373	81.56	18.44
71	Borders Coal Co., No. 2.....	Marissa .....	28,537	8,569	19,968	30.03	69.97
72	O'Fallon Coal & Min. Co.....	O'Fallon .....	28,015	21,590	6,425	77.07	22.93
73	Consol. C. Co., Gartside.....	Belleville .....	27,805	21,964	5,841	78.99	21.01
74	Enterprise Min. Co.....	Rentchler .....	26,957	16,149	10,808	59.91	40.09
75	Charles Hortman.....	Belleville .....	26,502	14,012	12,490	52.87	47.13
76	Herman Pfuhl.....	do.....	25,096	14,017	11,079	55.85	44.15
77	Breese Trenton Min. Co.....	Trenton.....	23,573	5,618	17,955	23.83	76.17
78	Glendale C. Min. Co., No. 2.....	Belleville .....	21,704	13,645	8,059	62.87	37.13
79	Little Oak C. Co.....	do.....	21,574	.....	21,574	.....	100.00
80	Consol. C. Co., Schurman .....	do.....	20,381	20,381	.....	100.00	.....
81	Avery C. & Min. Co.....	Marissa .....	20,207	10,335	9,872	51.15	48.85
82	Lebanon C. & Min. Assn.....	O'Fallon .....	18,172	10,451	7,721	57.51	42.49
83	Fred Murphy.....	Belleville .....	18,000	9,000	9,000	50.00	50.00
84	St. Louis & O'Fallon, No. 2.....	E. St. Louis.....	16,976	.....	16,976	.....	100.00
85	Humboldt C. & Min. Co.....	Belleville .....	13,776	11,071	2,705	80.36	19.64
86	Beatty Coal Co. ....	Mascoutah.....	11,050	7,600	3,450	68.78	31.22
87	T. M. Meek C. Co.....	Marissa .....	7,860	.....	7,860	.....	100.00
88	Bell. & O'Fallon C. M. Co.....	Belleville .....	6,660	.....	6,660	.....	100.00
89	Prairie Coal Co.....	do.....	5,004	.....	5,004	.....	100.00
90	Lenz C. & Min. Co., No. 1.....	do.....	4,650	4,650	.....	100.00	.....
91	Kolb Coal Co.....	Mascoutah.....	3,600	.....	3,600	.....	100.00
	Sixth district.....	.....	8,373,958	4,496,120	3,877,838	53.69	46.31

NOTE—One mine with an output of 18,485 tons not reported.

## SEVENTH DISTRICT.

1	Ziegler Coal Co., No. 1.....	Zeigler.....	103,223	52,325	50,898	50.69	49.31
2	Dering Coal Co., No. 11 .....	W. Frankfort .....	26,565	.....	26,565	.....	100.00
3	Benton Coal Co., No. 1.....	Benton.....	7,000	.....	7,000	.....	100.00
4	Gallatin Coal & Coke Co.....	Equality .....	67,857	31,977	35,880	47.12	52.88

Table 29—Continued.

## SEVENTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
5	Brown Coal Co.....	Equality .....	5,672	.....	5,672	.....	100.00
6	Big Muddy C. & I. Co., No. 6...	Murphysboro.	200,406	114,296	86,110	57.03	42.97
7	Muddy Valley Min. & Mfg. Co.	Hallidayboro.	198,211	112,146	86,065	56.58	43.42
8	Big Muddy C. & I. Co., Harrison	Murphysboro.	145,773	94,035	51,738	64.51	35.49
9	Gartside Coal Co., No. 4.....	.do .....	64,448	36,258	28,190	56.26	43.74
10	Inland C. & Washing Co., No. 1	De Soto.....	56,000	25,000	31,000	44.64	55.36
11	Gus Blair B. M. C. Co., No. 1...	Murphysboro.	50,310	17,263	33,047	34.31	65.69
12	Gartside Coal Co., No. 3.....	.do .....	44,742	18,166	26,576	40.60	59.40
13	Chicago & Carbondale Coal Co.	De Soto.....	30,000	16,000	14,000	53.33	46.67
14	Schmidtgal Coal Co., No. 1.....	Murphysboro.	4,000	2,110	1,890	52.75	47.25
15	Willis Coal & Min. Co., No. 1....	Willisville....	241,474	109,674	131,800	45.42	54.58
16	White Walnut C. Co.....	Pinckneyville	208,873	93,910	114,963	44.96	55.04
17	Mo. & Ill. C. Co., No. 4.....	Willisville....	127,499	63,072	64,427	49.47	50.53
18	Queen City Min. Co.....	Duquoin.....	88,800	25,500	63,300	28.72	71.28
19	Manf. Fuel Co., Jupiter No. 1....	.do .....	74,969	61,484	13,485	82.01	17.99
20	Lake Superior Coal Co.....	.do .....	67,605	38,552	29,053	57.03	42.97
21	Greenwood-Davis Coal Co.....	.do .....	54,850	27,193	27,657	49.58	50.42
22	Manf. Fuel Co., Jupiter No. 2....	.do .....	46,269	37,559	8,710	81.18	18.82
23	Equitable Coal Co.....	.do .....	44,402	60	44,342	14	99.86
24	Bailey Bros. Coal Co. No. 3....	Sunfield.....	36,991	19,533	17,458	52.80	47.20
25	Soper & Co.....	Cutler.....	36,285	24,739	11,546	68.18	31.82
26	Little Muddy Coal Co.....	Tamaroa.....	28,248	12,724	15,524	45.04	54.96
27	New Moon Mining Co.....	Duquoin.....	24,613	14,548	10,035	59.15	40.85
28	Morris Bros.....	.do .....	24,512	11,962	12,550	48.80	51.20
29	Forester Coal & Coke Co.....	.do .....	18,884	.....	18,884	.....	100.00
30	Duquoin-Pitts. Coal & C. Co....	.do .....	17,992	.....	17,992	.....	100.00
31	Manf. Fuel Co., Jupiter No. 3....	.do .....	14,983	8,526	6,457	56.90	43.10
32	Strait Coal Co.....	Pinckneyville	9,718	5,640	4,078	58.04	41.96
33	Willis Coal Mining Co. No. 6....	Percy .....	131,517	63,345	68,172	48.17	51.83
34	Moffat Coal Co.....	Sparta.....	79,678	55,215	24,463	69.30	30.70
35	Chrystal Coal Co. No. 1.....	Tilden .....	50,882	33,922	16,960	66.67	33.33

Table 29—Continued.

## SEVENTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Location of mine	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended.	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
36	Coulterville Mining Co. No. 1..	Coulterville...	49,915	18,522	31,393	37.11	62.89
37	Tilden Coal Co.....	Tilden .....	44,953	22,513	22,442	50.08	49.92
38	Illinois Fuel Co. No. 4.....	Sparta .....	40,845	21,522	19,323	52.69	47.31
39	J. A. Grein, Consol.....	Coulterville...	39,617	24,311	15,306	61.37	38.63
40	Illinois Fuel Co. No. 3.....	Sparta .....	32,422	19,639	12,783	60.57	39.43
41	Boyd Coal & Coke Co. No. 1....	do .....	22,000	14,500	7,500	65.91	34.09
42	Eureka Coal Co. No. 2.....	Tilden .....	6,981	.....	6,981	.....	100.00
43	Davenport Coal Co.....	Ledford .....	113,682	67,538	46,144	59.41	40.59
44	Clifton Coal Co.....	do .....	59,535	35,719	23,816	60.00	40.00
45	Galatia Coal Co.....	Galatia .....	31,000	18,000	13,000	58.06	41.94
46	Gallatin Coal & Coke Co.....	Nashville .....	54,315	26,131	28,184	48.11	51.89
47	Adam Kuhn.....	DuBois.....	24,000	15,054	8,946	62.73	37.27
48	Big Muddy C. & Iron Co. No. 7	Herrin .....	447,287	232,971	214,316	52.09	47.91
49	Chi. & Carterville C. Co. No. 1.	do .....	402,088	194,007	208,081	48.25	51.75
50	Peabody Coal Co. No. 3.....	Marion .....	319,548	116,450	203,098	36.44	63.56
51	St. Louis & B. M. C. Co., Dawes	Dewmaine ...	239,643	117,575	122,068	49.06	50.94
52	Chicago-Herrin Coal Co.....	Herrin .....	186,748	95,155	91,593	50.95	49.05
53	Western Coal Mg. Co., Bush...	Bush .....	174,692	49,838	124,854	28.53	71.47
54	Chi. & B. M. C. & C. Co. No. 1.	Marion .....	166,262	86,734	79,528	52.17	47.83
55	Peabody Coal Co. No. 2.....	do .....	164,214	76,269	87,945	46.44	53.56
56	Carterville Dist. C. Co. No. 6...	do .....	141,067	72,342	68,725	51.28	48.72
57	Williamson Co. C. Co.....	Johnson City.	108,562	49,120	60,442	44.83	55.17
58	B. M. Coal & Iron Co. No. 8...	Clifford .....	107,861	35,923	71,938	33.30	66.70
59	Johnson City & B. M. C. & M. Co.	Johnson City.	103,027	60,274	42,753	58.50	41.50
60	Carterville Coal Co. "A".....	Carterville ....	100,431	51,357	49,074	51.14	48.86
61	Carterville Coal Co. "B".....	do .....	86,362	42,171	44,191	48.83	51.17
62	Donally-Koenneck Coal Co....	do .....	84,564	56,398	28,166	66.69	33.31
63	Carterville Coal Co. "C".....	do .....	81,774	20,612	61,162	25.21	74.79
64	New Ohio Washed C. Co. No. 1	do .....	76,769	49,002	27,767	63.83	36.17
65	Robert Dick Coal Co.....	Cambria .....	68,967	36,897	32,070	53.50	46.50

Table 29—Continued.

SEVENTH DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Location of mine.	Total tons.	Total Output Produced During the Six Months Ended—		Percentage of Total Output Produced for Six Months Ended—	
				Dec. 31, 1904.	June 30, 1905.	Dec. 31, 1904.	June 30, 1905.
66	Carterville Mining Co.....	Herrin .....	67,647	23,776	43,871	35.15	64.85
67	Carterville B. M. C. Co. No. 1..	Cambria .....	62,959	34,549	28,410	54.88	45.12
68	Watson Coal Co.....	Herrin .....	42,000	10,000	32,000	23.81	76.19
69	Chicago-Marion Coal Co.....	Marion .....	41,265	22,399	18,866	54.28	45.72
70	Carterville-Herrin C. Co. No. 1.	Herrin .....	41,110	13,298	27,812	32.35	67.65
71	St. Louis-Carterville Coal Co....	do.....	19,812	9,788	10,024	49.40	50.60
72	M. Hampton.....	Carterville....	6,268	5,028	1,240	80.22	19.78
	Seventh District.....	.....	6,294,445	3,072,116	3,222,329	48.81	51.19

NOTE.—Nine mines with an output of 667,526 tons not reported.

The table accounts for the total output of each mine for the fiscal year, by districts, divided into the two periods, with the percentages of the total tons accredited to each. The object sought in collecting and presenting these statistics as shown, has been to determine, if possible, the relative business activity of the large coal mining plants of the State, as a continuous or uninterrupted industry, regardless of any particular season or demand of the markets. The results of the inquiry also reveal the continuity of employment afforded to miners and other workmen in and about these mines, for the year round. It will be found in some instances, in the different districts, that the total output of a mine is given entirely to one of the periods, which doubtless means a new mine or the suspension of work at that particular mine.

The foregoing table is recapitulated by districts:

TABLE 30—*Recapitulation of Table 29.*

DISTRICT.	TOTAL NUMBER OF MINES AND OUT- PUT REPORTED.		PERCENTAGE OF TOTAL OUTPUT PRODUCED DURING THE SIX MONTHS ENDED—			
			DECEMBER 31, 1904.		JUNE 30, 1905.	
	Mines.	Tons.	Mines.	Percentage.	Mines.	Percentage.
First .....	39	3,252,282	35	50.42	38	49.58
Second .....	28	2,940,703	28	54.86	28	45.14
Third .....	50	2,487,876	50	51.92	49	48.08
Fourth .....	41	4,294,698	40	50.37	41	49.63
Fifth .....	56	7,329,825	55	48.00	56	52.00
Sixth .....	91	8,373,958	83	53.69	89	46.31
Seventh .....	72	6,294,445	66	48.81	72	51.19
The State .....	377	34,953,789	357	50.88	373	49.12

Here is presented a better view of the mining industry of the State for the two periods. For the six months ended December 31, 1904, 357 mines of the total number reporting produced 50.88 per cent of the total output, while for the other six months ended June 30, 1905, 373 mines furnished 49.12 per cent of the product; referring to the districts it will be seen that the fifth and seventh districts reverse this order. A similar report to the present exhibit was given in the coal report of the Bureau for the year 1897; however, that presentation was by counties, and for each month of the fiscal year. The results there found were that 51.44 per cent of the output was produced for the six months ending December 31, 1896, and 49.12 per cent for the six months ending June 30, 1897. By months the lowest per cent, 5.65, was shown for May, and the highest, 10.36, for October.

## HAULAGE IN THE MINES.

The record for the haulage of coal, in the shipping mines of the State for the year is shown in the following table, by districts, also the record for the past five years.

TABLE 31—*Haulage of Coal in the Shipping Mines of the State, by Districts, 1905.*

DISTRICT.	ELECTRICITY		CABLE.		MULE OR HORSE.		HAND.		VARIOUS.	
	No. of mines	Tons.	No. of mines	Tons.	No. of mines	Tons.	No. of mines	Tons.	No. of mines	Tons.
First.....					34	2,886,460	2	2,666	3	*363,156
Second.....					14	1,899,853	9	53,534	6	*988,842
Third.....	6	574,891	4	248,926	43	1,938,506			2	†12,175
Fourth.....					31	2,056,110	1	3,108	13	*2,244,077
Fifth.....	8	1,978,267	5	760,924	40	4,133,466	1	4,800	2	‡452,368
Sixth.....					80	5,576,732			12	*2,815,711
Seventh.....	5	1,049,619	1	67,857	74	5,824,417	1	20,078		
The State ..	19	3,602,777	10	1,077,707	316	24,315,544	14	84,186	38	6,876,329
1904.....	14	3,331,420	9	1,205,281	302	24,829,705	18	107,426	37	6,305,685
1903.....	14	3,308,285	21	2,537,895	297	25,411,371	10	60,823	11	2,358,163
1902.....	10	2,258,293	15	2,626,182	288	22,036,531	7	30,329	12	1,873,415
1901.....	12	2,082,377	21	2,740,616	545	§21,068,518	340	743,808		
1900.....	7	1,331,579	27	2,424,978	512	20,410,169	374	987,570		

\* Cable, electric and mule.

† Dogs.

‡ Compressed air.

§ 677,495 tons hauled by electricity.

The number of mines using electrical power only for hauling coal to the bottom of the mines, has increased over last year; there are 19 of these mines reported this year, located in the third, fifth and seventh districts, the total tons hauled being 3,602,777 or 10 per cent of the output of the shipping mines. Electrical haulage is also employed in the other districts, but in combination with other appliances. The haulage by mule or horse power continues as the leading method, being used in 80 per cent of all these mines and pulling 68 per cent of all the coal.

The table following gives the percentages of the mines and tons hauled by the several systems:

TABLE 32—*Percentages of the Shipping Mines and Tons, Showing Haulage for the years 1902, 1903, 1904 and 1905.*

YEAR.	PERCENTAGES OF MINES USING AND TONS HAULED BY—									
	ELECTRICITY.		CABLE.		HORSE OR MULE.		HAND.		VARIOUS.	
	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.	Mines.	Tons.
1902 .....	3.02	7.83	4.52	9.11	86.75	76.45	2.10	.11	3.61	6.50
1903 .....	3.97	9.82	5.92	7.54	84.13	75.46	2.83	.18	3.12	7.00
1904 .....	3.68	9.31	2.37	3.37	79.47	76.40	4.74	.30	9.74	17.62
1905 .....	4.79	10.02	2.52	3.00	79.60	67.62	3.52	.23	9.57	19.73
Increase (+).....	+35.71	+8.15	+11.11	-1.46	+4.63	-2.07	-22.22	-21.63	+2.70	+9.05
Decrease (-).....										

The last line of the table shows the increase or decrease in mines and tons as compared with last year.

#### OUTPUT BY COUNTIES.

The production of coal in the State, by counties, has been shown in these reports for the past several years. The following table gives a list of the counties furnishing over 500,000 tons for this year and the previous four years:

TABLE 33—*Relative Rank of the Counties of the State Producing 500,000 Tons of Coal or over for a Series of Five Years.*

COUNTY.	Rank.	Tonnage 1905.	Rank.	Tonnage 1904.	Rank.	Tonnage 1903.	Rank.	Tonnage 1902.	Rank.	Tonnage 1901.
Sangamon .....	1	4,395,050	1	4,516,358	1	4,386,526	1	3,672,989	1	2,919,223
Williamson .....	2	3,815,751	4	3,038,466	4	2,551,587	6	1,956,271	7	1,595,081
St. Clair.....	3	3,398,032	2	3,418,479	2	3,134,679	2	2,578,553	2	2,518,847
Madison.....	4	2,987,906	5	3,030,892	5	2,711,767	5	2,013,692	6	1,605,960
Vermilion .....	5	2,618,375	3	3,114,060	3	2,893,233	3	2,558,371	4	2,003,780
Macoupin .....	6	2,530,840	6	2,221,474	6	2,223,055	4	2,075,253	3	2,115,319
Bureau .....	7	1,751,875	7	1,832,577	8	1,778,302	8	1,732,813	8	1,549,056
LaSalle.....	8	1,696,853	8	1,773,189	7	1,877,555	7	1,894,510	5	1,833,561
Fulton .....	9	1,439,489	10	1,284,279	10	1,036,496	10	889,679	14	646,400
Grundy .....	10	1,326,109	9	1,405,158	9	1,457,935	9	1,383,336	9	1,293,092
Perry .....	11	1,268,718	11	1,240,174	11	1,031,751	14	789,625	13	664,278
Marion .....	12	1,086,350	12	1,083,734	12	1,002,047	11	881,821	11	829,326
Peoria .....	13	904,892	14	939,737	15	920,716	13	824,270	12	710,587



Table 33—Concluded.

COUNTY.	Rank.	Tonnage 1905.	Rank.	Tonnage 1904.	Rank.	Tonnage 1903.	Rank.	Tonnage 1902.	Rank.	Tonnage 1901.
Clinton.....	14	904,826	15	925,515	16	870,518	16	724,462	15	644,864
Christian.....	15	857,890	13	986,685	14	926,563	15	725,088	16	578,482
Jackson.....	16	802,101	16	862,641	13	972,284	12	853,056	10	911,245
Mercer.....	17	544,220	18	601,508	17	648,070	17	602,722	17	563,603
Marshall.....	18	510,968	.....	.....	.....	.....	.....	.....	.....	.....
Randolph.....	19	506,547	17	620,280	.....	.....	.....	.....	.....	.....
Menard.....	.....	.....	19	543,763	.....	.....	.....	.....	.....	.....
Totals—counties and tons.....	.....	33,346,792	19	33,438,969	17	30,423,084	17	26,156,511	17	22,982,499

The number of counties this year is nineteen, the same as last year; however, one county, Marshall, has been added while Menard county has failed to maintain its place in the list. Sangamon county holds first place in the list this year, where it has been for six years; St. Clair county has surrendered second rank to Williamson, which was fourth in rank last year.

A list of the fifty-six counties producing the coal of the State is shown as follows:

TABLE 34—Coal Producing Counties of the State, Giving Number of District, Mines, Men and Tons, of Shipping and Local Mines—1905.

COUNTY.	District.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Bond.....	6	1	211	129,815	1	211	129,815	.....	.....	.....
Brown.....	5	6	12	1,606	.....	.....	.....	6	12	1,606
Bureau.....	2	21	4,533	1,751,875	7	4,444	1,722,063	14	89	29,812
Calhoun.....	5	1	10	2,880	.....	.....	.....	1	10	2,880
Cass.....	3	2	7	2,590	.....	.....	.....	2	7	2,590
Christian.....	4	7	1,323	857,890	7	1,323	857,890	.....	.....	.....
Clinton.....	6	7	1,202	904,826	7	1,202	904,826	.....	.....	.....
Edgar.....	4	2	17	5,550	.....	.....	.....	2	17	5,550
Franklin.....	7	3	413	136,788	3	413	136,788	.....	.....	.....
Fulton.....	3	50	2,296	1,439,489	20	2,067	1,379,604	30	229	59,885
Gallatin.....	7	6	159	76,629	2	141	73,529	4	18	3,100
Greene.....	5	11	46	14,659	.....	.....	.....	11	46	14,659
Grundy.....	1	24	3,347	1,826,109	12	3,251	1,299,247	12	96	26,862
Hamilton.....	7	1	2	200	.....	.....	.....	1	2	200
Hancock.....	3	5	.....	11,560	1	14	8,500	4	26	3,060

Table 34—Continued.

COUNTY.	District.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
Henry .....	2	32	399	159,019	3	171	83,618	29	228	75,401
Jackson .....	7	20	1,323	802,101	9	1,283	793,890	11	40	8,211
Jefferson .....	7	3	55	30,236				3	55	30,236
Jersey .....	5	8	22	3,141				8	22	3,141
Johnson .....	7	2	5	2,400				2	5	2,400
Kankakee .....	1	1	23	700	1	23	700			
Knox .....	2	42	253	68,981	2	74	23,800	40	179	45,181
LaSalle .....	1	45	3,787	1,696,853	18	3,578	1,633,009	27	209	63,844
Livingston .....	1	13	501	244,394	4	384	197,199	9	117	47,195
Logan .....	4	4	636	384,288	4	636	384,288			
Macon .....	4	5	372	196,628	5	372	196,628			
Macoupin .....	5	27	3,366	2,530,840	17	3,307	2,514,804	10	59	16,036
Madison .....	6	38	3,815	2,987,906	19	3,678	2,935,749	19	137	52,157
Marion .....	6	7	1,371	1,086,350	7	1,371	1,086,350			
Marshall .....	2	13	1,092	510,968	3	1,061	503,776	10	31	7,192
McDonough .....	3	72	293	43,944	2	71	12,175	70	222	31,769
McLean .....	4	3	330	175,010	3	330	175,010			
Menard .....	3	16	821	448,433	9	776	435,793	7	45	12,640
Mercer .....	2	17	922	544,220	9	882	529,992	8	40	14,228
Montgomery .....	5	6	747	468,198	6	747	468,198			
Morgan .....	5	3	15	4,702				3	15	4,702
Peoria .....	3	87	1,497	904,892	19	1,136	768,278	68	361	136,614
Perry .....	7	26	2,151	1,268,718	22	2,122	1,253,208	4	29	15,510
Putnam .....	2	1	216	42,964	1	216	42,964			
Randolph .....	7	12	680	506,547	10	648	498,812	2	12	7,733
Rock Island .....	2	14	152	78,784	2	44	23,256	12	108	55,528
Saline .....	7	9	418	427,262	5	396	319,295	4	22	7,967
Sangamon .....	5	36	5,885	4,395,050	33	5,815	4,346,823	3	70	48,227
Schuyler .....	3	18	84	21,470				18	84	21,470
Scott .....	5	14	72	14,876				14	72	14,876
Shelby .....	4	12	285	121,212	2	201	105,928	10	84	15,284
Stark .....	2	18	120	38,431	2	40	12,760	16	80	25,671
St. Clair .....	6	74	4,037	3,398,032	58	3,939	3,335,703	16	98	62,329
Tazewell .....	3	12	359	235,001	4	272	170,148	8	87	64,853
Vermillion .....	4	66	4,140	2,618,375	22	3,850	2,464,872	44	290	153,503
Warren .....	2	20	74	17,486				20	74	17,486

Table 34—Concluded.

COUNTY.	District.	ALL MINES.			SHIPPING MINES.			LOCAL MINES.		
		Mines	Men.	Tons.	Mines	Men.	Tons.	Mines	Men.	Tons.
Washington ....	7	2	126	78,315	2	126	78,315	.....	.....	.....
White .....	7	1	14	1,000	.....	.....	.....	1	14	1,000
Will. ....	1	6	499	128,751	4	480	122,127	2	19	6,624
Williamson.....	7	36	4,337	3,815,751	28	4,310	3,806,134	8	27	7,617
Woodford .....	4	2	338	118,679	2	338	118,679	.....	.....	.....
56 Counties.....	.....	990	59,230	37,183,374	397	55,743	35,956,543	593	3,487	1,226,831

This table shows the mines, men and tons, for all mines and for shipping and local mines. The relative significance of these counties is here shown in operating and maintaining the coal mines of the State, the employing of the men and in the production of coal. Sangamon county gave employment to 5,885 men; Bureau, Williamson, Vermillion and St. Clair, to over 4,000 each as named; Madison, LaSalle, Macoupin and Grundy each accounted for over 3,000 men, while Fulton and Perry each gave employment to over 2,000 men. The eleven counties named furnished employment during the year to 41,694 men or 70 per cent of all employes at the mines in the State.

#### DISPOSITION OF THE OUTPUT.

The output for the year and its distribution, are shown, by districts, in the table following:

TABLE 35—Disposition of the Output of Shipping Mines by Districts. Also Local Mines.

DISTRICTS.	Total output all grades—Tons.	Tons shipped from mines.	Tons supplied to locomotives at mines.	Tons sold to local trade.	Tons used and wasted at mines.
First .....	3,252,282	2,711,329	122,903	166,148	251,902
Second .....	2,942,229	2,665,629	57,804	89,641	129,155
Third .....	2,774,498	2,547,468	50,848	98,894	77,288
Fourth.....	4,303,295	3,517,943	196,029	391,159	198,164
Fifth.....	7,329,825	6,527,037	186,755	315,997	300,036
Sixth.....	8,392,443	7,506,551	291,423	219,696	375,773
Seventh .....	6,931,971	6,192,116	266,415	114,513	388,927
Shipping mines.....	35,956,543	31,667,073	1,172,177	1,396,048	1,721,245
Local mines.....	1,226,831	.....	6,060	1,204,760	16,011
The State.....	37,183,374	31,667,073	1,178,237	2,600,808	1,737,256

The foregoing statement is reduced to percentages, and gives a better reading of the distribution of the product of the coal mines, as follows, by districts:

TABLE 36—*Percentages of the Output of Shipping and Local Mines, also Percentages of the Distribution, by Districts, 1905.*

DISTRICT.	PERCENTAGES OF—				
	Total output.	Tons shipped.	Tons to locomotives	Tons sold to local trade.	Tons consumed or wasted at the mines.
First .....	9.04	83.37	3.77	5.11	7.75
Second .....	8.18	90.60	1.96	3.05	4.39
Third .....	7.72	91.82	1.83	3.56	2.79
Fourth .....	11.97	81.75	4.55	9.09	4.61
Fifth .....	20.39	89.05	2.55	4.31	4.09
Sixth .....	23.34	89.43	3.47	2.62	4.48
Seventh .....	19.36	88.94	3.83	1.64	5.59
Shipping mines .....	100.00	88.07	3.26	3.88	4.79
Local mines .....	100.00	...	.49	98.20	1.31

Compared with last year, the tons shipped from all the mines the present year, is only three-fourths of 1 per cent less.

The percentages of the distribution of the output of the coal of the State for six years is presented in the following table:

TABLE 37—*Total Output of the Shipping Mines of the State, also Percentages of the Distribution for Five Years.*

YEAR.	Total output.	PERCENTAGES OF—			
		Tons shipped.	Tons supplied to locomotives.	Tons sold to local trade.	Tons consumed or wasted at the mines.
1900 .....	24,056,996	87.33	3.42	5.12	4.13
1901 .....	25,526,816	88.34	3.46	4.12	4.08
1902 .....	28,824,750	89.07	3.30	3.74	3.89
1903 .....	33,676,537	89.33	3.27	3.59	3.81
1904 .....	35,779,517	88.82	3.32	3.80	4.06
1905 .....	35,956,543	88.07	3.26	3.88	4.79

## LOCAL MINES.

1900 .....	1,096,933	.....	5.66	85.57	8.77
1901 .....	1,108,503	.....	5.84	86.62	7.54
1902 .....	1,186,550	.....	1.54	89.05	9.41
1903 .....	1,278,863	.....	1.29	86.86	11.85
1904 .....	1,298,380	.....	2.75	89.46	7.79
1905 .....	1,226,831	.....	.49	98.20	1.31

The shipping mines show quite a uniform percentage of their product, from year to year, loaded on to cars to go forward to the different markets; this year the tons shipped are slightly less than for the previous four years, the balance of the product of these mines was quite evenly divided, as supplied to locomotives at the mines, the local trade and used at the mines. The local mines show a marked decrease in tons to locomotives and used at the mines, and a like increase in tons to the local trade.

#### DISPOSITION BY DISTRICTS AND COUNTIES.

For several years the disposal of the product of the coal mines of the State has been given by counties and by districts, and is again presented for the past year, in the following table:

TABLE 38—*Disposition of the Output of Shipping Mines by Counties and Districts.*

##### FIRST DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Grundy.....	12	1,299,247	1,230,436	.....	20,085	48,726
Kankakee.....	1	700	350	.....	.....	350
La Salle.....	18	1,633,009	1,196,873	115,903	130,442	189,791
Livingston.....	4	197,199	177,175	7,000	8,109	4,915
Will.....	4	122,127	106,495	.....	7,512	8,120
The district.....	39	3,252,282	2,711,329	122,903	166,148	251,902
Percentages.....	.....	100.00	83.37	3.78	5.11	7.74
Local mines.....	50	144,525	.....	.....	144,525	.....

##### SECOND DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Bureau.....	7	1,722,063	1,591,798	23,370	31,562	75,333
Henry.....	3	83,618	73,217	.....	8,101	2,300
Knox.....	2	23,800	18,120	480	4,200	1,000
Marshall.....	3	503,776	426,331	32,242	21,119	24,084
Mercer.....	9	529,992	489,967	1,712	17,728	20,585
Putnam.....	1	42,964	37,768	.....	972	4,224
Rock Island.....	2	23,256	22,055	.....	212	989
Stark.....	2	12,760	6,373	.....	5,747	640
The district.....	29	2,942,229	2,665,629	57,804	89,641	129,155
Percentages.....	.....	100.00	90.60	1.96	3.05	4.39
Local mines.....	149	270,499	.....	.....	265,154	5,345

Table 38—Continued.

## THIRD DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Fulton .....	20	1,379,604	1,286,138	32,435	26,258	34,773
Hancock .....	1	8,500	8,000	.....	500	.....
McDonough .....	2	12,175	12,175	.....	.....	.....
Menard .....	9	435,793	383,454	3,103	25,443	23,793
Peoria .....	19	768,278	706,695	15,310	30,281	15,992
Tazewell .....	4	170,148	151,006	.....	16,412	2,730
The district .....	55	2,774,498	2,547,468	50,848	98,894	77,288
Percentages .....	.....	100.00	91.82	1.83	3.56	2.79
Local mines .....	207	332,881	.....	.....	332,881	.....

## FOURTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Christian .....	7	837,890	630,335	89,044	63,312	75,199
Logan .....	4	384,288	293,319	25,052	42,359	23,558
Macon .....	5	196,628	50,992	.....	137,449	8,187
McLean .....	3	175,010	31,072	32,178	93,860	17,900
Shelby .....	2	105,928	69,630	16,778	13,191	6,329
Vermillion .....	22	2,464,872	2,350,294	27,383	27,149	60,046
Woodford .....	2	118,679	92,301	5,594	13,839	6,945
The district .....	45	4,303,295	3,517,943	198,029	391,159	198,164
Percentages .....	.....	100.00	81.75	4.56	9.09	4.60
Local mines .....	56	174,337	.....	.....	174,337	.....

## FIFTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed or wasted at the mines.
Macoupin .....	17	2,514,804	2,256,842	74,200	64,156	119,606
Montgomery .....	6	468,198	411,950	9,556	32,534	14,158
Sangamon .....	33	4,346,823	3,858,245	102,999	219,307	166,272
The district .....	56	7,329,825	6,527,037	186,755	315,997	300,036
Percentages .....	.....	100.00	89.05	2.55	4.31	4.09
Local mines .....	56	106,127	.....	6,060	95,138	4,929

Table 38—Concluded.

## SIXTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons con- sumed or wasted at the mines.
Bond.....	1	129,815	122,274	.....	3,321	4,220
Clinton .....	7	904,826	796,272	47,834	25,386	35,334
Madison .....	19	2,935,749	2,726,788	31,162	51,068	126,731
Marion .....	7	1,086,350	796,254	169,449	58,506	62,141
St. Clair.....	58	3,335,703	3,063,963	42,978	81,415	147,347
The district.....	92	8,392,443	7,505,551	291,423	219,696	375,773
Percentages .....	.....	100.00	89.43	3.47	2.62	4.48
Local mines.....	35	114,486	.....	.....	110,004	4,482

## SEVENTH DISTRICT.

COUNTY.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons con- sumed or wasted at the mines.
Franklin.....	3	136,788	122,741	.....	2,097	11,950
Gallatin.....	2	73,529	55,561	2,186	9,678	6,104
Jackson .....	9	793,890	631,829	63,626	10,296	88,139
Perry.....	22	1,253,208	1,056,095	142,131	26,249	28,733
Randolph .....	10	498,812	467,208	.....	12,001	19,603
Saline .....	5	319,295	284,249	16,383	8,107	10,556
Washington.....	2	78,315	16,582	38,230	21,122	2,381
Williamson.....	28	3,808,134	3,557,851	3,859	24,963	221,461
The district.....	81	6,961,971	6,192,116	266,415	114,513	388,927
Percentages .....	.....	100.00	88.94	3.83	1.64	5.59
Local mines.....	40	83,976	.....	.....	82,721	1,255

A detailed account has also been shown in these reports in tabular form, of the Illinois railroads, and the tonnage which each road has taken from the several coal-producing counties of the State, and transported to the markets of the country. The following table presents the record for the year:

TABLE 39—*Railroads Which Have Hauled the Coal Output of Shipping Mines of the State and the Tonnage Contributed to Each Road, by Counties—1905.*

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
			Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
1	Illinois Central—22 counties.....	104	7,223,132	464,714	100.00	100.00
	Williamson.....	15	2,068,134	2,415	28.63	.52
	St. Clair.....	21	840,949	20,744	11.64	4.46
	Marion.....	6	775,337	169,449	10.73	36.46
	Perry.....	18	737,786	55,876	10.21	12.02
	Sangamon.....	6	653,965	18,252	9.05	3.93
	Jackson.....	6	525,448	63,626	7.27	13.69
	Madison.....	2	394,166	2,350	5.45	.51
	LaSalle.....	4	296,799	52,629	4.19	11.33
	Christian.....	4	282,970	8,335	3.91	1.80
	Macoupin.....	1	141,294	21,387	1.95	4.60
	Logan.....	4	138,255	25,052	1.91	5.39
	Randolph.....	4	119,060	.....	1.64	.....
	Marshall.....	1	81,741	.....	1.13	.....
	Shelby.....	1	68,996	16,778	.95	3.61
	Saline.....	2	31,124	643	.41	.14
	Franklin.....	1	18,252	.....	.25	.....
	Washington.....	1	16,000	.....	.22	.....
	Macon.....	2	15,944	.....	.22	.....
	McLean.....	2	10,552	7,178	.14	1.54
	Woodford.....	1	6,170	.....	.085	.....
	Montgomery.....	1	810	.....	.01	.....
	Kankakee.....	1	850	.....	.005	.....
2	Chicago & Eastern Illinois—4 counties..	24	2,914,522	1,383	100.00	100.00
	Vermilion.....	13	1,987,762	1,383	68.20	100.00
	Williamson.....	8	864,772	.....	29.67	.....
	Franklin.....	2	31,478	.....	1.08	.....
	Montgomery.....	1	30,510	.....	1.05	.....
3	Chicago, Burl. & Quincy—13 counties...	46	2,521,752	22,679	100.00	100.00
	Fulton.....	9	799,145	13,720	31.69	60.50
	LaSalle.....	11	508,619	.....	20.17	.....
	Macoupin.....	4	442,392	7,821	17.54	34.48
	Mercer.....	5	298,473	1,138	11.84	5.02
	Bureau.....	1	187,550	.....	7.44	.....
	Peoria.....	6	157,201	.....	6.23	.....
	Henry.....	2	65,607	.....	2.60	.....
	Montgomery.....	1	22,188	.....	.88	.....
	McDonough.....	2	12,175	.....	.48	.....
	Knox.....	1	9,500	.....	.38	.....
	Hancock.....	1	8,000	.....	.32	.....
	Stark.....	2	6,373	.....	.25	.....
	Bond.....	1	4,529	.....	.18	.....



Table 39—Continued.

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
			Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
4	Chicago & Alton—10 counties.....	40	2,379,383	11,660	100.00	100.00
	Sangamon.....	16	1,609,032	11,660	67.62	100.00
	Macoupin.....	6	325,109		13.66	
	Menard.....	3	162,460		6.83	
	Logan.....	2	155,064		6.52	
	Will.....	3	80,063		3.37	
	Grundy.....	3	21,370		.90	
	Marshall.....	1	11,928		.50	
	LaSalle.....	4	9,402		.40	
	Montgomery.....	1	3,435		.14	
	McLean.....	1	1,500		.06	
5	Wabash—9 counties.....	35	2,190,109	112,652	100.00	100.00
	Macoupin.....	6	812,832	37,636	37.11	32.41
	Sangamon.....	8	750,948	14,960	34.29	13.27
	Christian.....	2	280,453	51,369	12.81	45.60
	Vermillion.....	3	149,851		6.84	
	Madison.....	2	99,418		4.54	
	Livingston.....	4	34,959	7,000	1.60	6.21
	Macon.....	3	33,548		1.53	
	Montgomery.....	2	17,362	698	.79	.62
	LaSalle.....	5	10,743	999	.49	.39
6	Elgin, Joliet & Eastern—2 counties.....	13	1,205,798		100.00	
	Grundy.....	12	1,179,386		97.81	
	Will.....	1	26,412		2.19	
7	Chicago, Peoria & St. Louis—5 counties..	19	1,186,864	53,145	100.00	100.00
	Madison.....	5	644,844	5,952	54.33	11.20
	Sangamon.....	6	300,788	44,090	25.34	82.96
	Menard.....	6	220,994	3,103	18.62	5.84
	Macoupin.....	1	18,167		1.53	
	Montgomery.....	1	2,071		.18	
8	Chicago & Northwestern—1 county.....	5	1,129,154	14,254	100.00	100.00
	Bureau.....	5	1,129,154	14,254	100.00	100.00
9	Baltimore & Ohio S-W.—5 counties.....	19	1,122,525	59,945	100.00	100.00
	Clinton.....	5	500,673	47,834	44.60	79.80
	St. Clair.....	6	343,234		30.58	
	Sangamon.....	4	247,362	12,111	22.04	20.20
	Marion.....	2	20,917		1.86	
	Christian.....	2	10,359		.92	
10	St. Louis, Troy & Eastern—1 county.....	3	901,707	2,464	100.00	100.00
	Madison.....	3	901,707	2,464	100.00	100.00
11	Clev., Cin., Chi. & St. L.—8 counties.....	19	878,451	84,675	100.00	100.00
	Montgomery.....	3	287,329	8,858	30.43	10.46
	Saline.....	4	249,001	15,740	29.35	18.59
	Vermillion.....	5	162,573	22,000	21.92	25.98
	Tazewell.....	1	66,321		7.35	
	Christian.....	2	56,573	20,340	6.44	34.65
	Macoupin.....	2	43,020	5,737	4.90	6.78
	McLean.....	1	3,000	3,000	.34	3.54
	Shelby.....	1	634		.07	
12	Southern Railroad—2 counties.....	13	807,974	16,748	100.00	100.00
	St. Clair.....	11	512,375	16,748	63.41	100.00
	Clinton.....	2	295,599		36.59	

Table 39—Continued.

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
			Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
13	Chi., Rock Island & Pac.—6 counties .....	13	710,592	62,849	100.00	100.00
	LaSalle .....	5	276,693	62,275	38.94	99.09
	Bureau .....	1	220,386		31.01	
	Mercer .....	4	191,494	574	26.95	.91
	Marshall .....	1	9,193		1.29	
	Henry .....	1	7,610		1.07	
	Rock Island .....	1	5,236		.74	
14	Louisville & Nashville—4 counties .....	17	651,896	41,475	100.00	100.00
	St.Clair .....	13	590,629	1,059	90.60	2.55
	Gallatin .....	2	55,561	2,186	8.52	5.27
	Saline .....	1	5,124		.79	
	Washington .....	1	582	38,230	.09	92.18
15	Vandalia Line—2 counties .....	7	586,126	20,396	100.00	100.00
	Madison .....	6	584,626	20,396	99.74	100.00
	Macon .....	1	1,500		.26	
16	Mobile & Ohio—3 counties .....	6	536,342	80,255	100.00	100.00
	Perry .....	2	282,147	80,255	52.61	100.00
	Randolph .....	2	148,134		27.62	
	Jackson .....	2	106,061		19.77	
17	St. Louis, Iron Mt. & South'n—3 counties.	7	492,751	10	100.00	100.00
	Williamson .....	5	419,420	10	85.12	100.00
	Franklin .....	1	73,011		14.82	
	Jackson .....	1	320		.06	
18	Macoupin County R. R.—1 county .....	2	470,367		100.00	
	Macoupin .....	2	470,367		100.00	
19	St. L. & O'Fallon Electric—1 county .....	3	403,894	3,652	100.00	100.00
	St. Clair .....	3	403,894	3,652	100.00	100.00
20	Iowa Central—2 counties .....	6	395,791	12,129	100.00	100.00
	Fulton .....	2	240,400	819	60.74	6.75
	Peoria .....	4	155,391	11,310	39.26	93.25
21	Toledo, Peoria & Western—3 counties .....	12	383,320	15,300	100.00	100.00
	Fulton .....	6	205,623	15,300	53.64	100.00
	Peoria .....	5	176,675		46.09	
	McLean .....	1	1,020		.27	
22	Atchison, Topeka & Santa Fé—4 counties.	14	357,301	37,423	100.00	100.00
	Marshall .....	1	157,941	31,829	44.20	85.03
	Woodford .....	2	86,131	5,594	24.11	14.95
	LaSalle .....	5	83,549		23.38	
	Grundy .....	6	29,680		8.31	
23	St. Louis & Belleville, electric—1 county.	3	320,670		100.00	
	St. Clair .....	3	320,670		100.00	
24	Peoria & Pekin Union—2 counties .....	5	273,913	4,000	100.00	100.00
	Peoria .....	4	217,428	4,000	79.38	100.00
	Tazewell .....	1	56,485		20.62	
25	Pawnee Railroad—1 county .....	1	216,192	1,936	100.00	100.00
	Sangamon .....	1	216,192	1,936	100.00	100.00

Table 39—Continued.

Number.	RAILROADS AND COUNTIES.	Number miles.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
			Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
26	Coal Belt Electric—1 county .....	4	205,524	1,434	100.00	100.00
	Williamson .....	4	205,525	1,434	100.00	100.00
27	Illinois Southern—1 county .....	5	199,984		100.00	
	Randolph .....	5	199,984		100.00	
28	Toledo, St. Louis & Western—2 counties.	2	185,990		100.00	
	Bond .....	1	117,745		63.31	
	Montgomery .....	1	68,245		36.69	
29	Toluca, Marquette & Northern—1 county.	1	165,528	413	100.00	100.00
	Marshall .....	1	165,528	413	100.00	100.00
30	Indiana, Illinois & Iowa—2 counties .....	3	152,249		100.00	
	Livingston .....	1	142,216		93.41	
	LaSalle .....	2	10,033		6.59	
31	Illinois Terminal—1 county .....	1	102,032		100.00	
	Madison .....	1	102,032		100.00	
32	Chi., Milwaukee & St. Paul—2 counties ..	2	92,496	9,116	100.00	100.00
	Bureau .....	1	54,728	9,116	59.17	100.00
	Putnam .....	1	37,768		40.83	
33	Cin., Hamilton & Dayton—1 county .....	3	79,958		100.00	
	Sangamon .....	3	79,958		100.00	
34	E. St. L. & Suburban Electric—1 county..	1	52,212	775	100.00	100.00
	St. Clair .....	1	52,212	775	100.00	100.00
35	Lake Erie & Western—2 counties.....	3	43,200	22,000	100.00	100.00
	Tazwell .....	2	28,200		65.28	
	McLean .....	1	15,000	22,000	34.72	100.00
36	Fulton County Narrow Gauge—1 county.	3	40,968	2,596	100.00	100.00
	Fulton .....	3	40,968	2,596	100.00	100.00
37	Wabash, Chester & Western—1 county ..	2	36,162	6,000	100.00	100.00
	Perry .....	2	36,162	6,000	100.00	100.00
38	Ill. Traction Co., Electric—1 county.....	2	20,108		100.00	
	Vermilion .....	2	20,108		100.00	
39	Davenport, R. I. & N.-W.—1 county.....	1	16,819		100.00	
	Rock Island .....	1	16,819		100.00	
40	Galesburg & Great Eastern—1 county.....	1	8,620	480	100.00	100.00
	Knox .....	1	8,620	480	100.00	100.00

Table 39—Concluded.

Number.	RAILROADS AND COUNTIES.	Number mines.	TONS RECEIVED BY EACH ROAD FOR—		PERCENTAGE.	
			Shipment.	Locomotives.	Shipped.	Supplied to locomotives.
41	Quincy, Carrolton & St. Louis—1 county..	1	3,661	1,619	100.00	100.00
	Macoupin.....	1	3,661	1,619	100.00	100.00
42	Chi., Lake Shore & Eastern—1 county....	1	.....	4,000	.....	100.00
	Vermilion.....	1	.....	4,000	.....	100.00
	Total tons hauled and supplied to locomotives by 42 railroads.....		31,666,038	1,172,177	.....	.....
	Shipped by water, Illinois and Michigan Canal.....		1,035	.....	.....	.....
	Total State.....		31,667,073	1,172,177	.....	.....

Here are forty-two railroads represented in the list; this is two more roads than shown last year. The foregoing is supplemented by an abridged table, which presents the showing more favorably. Here is brought together the activity and energy of the forty-two railroads, both in handling and consuming the coal product of the mines located in the several counties contributing the same.

The Illinois Central railroad again heads the list where it has been for the past eight years. This road for this year has received coal for transportation from 104 mines, located in twenty-two counties; the total tons carried to the markets were 7,223,132, being more than any other two roads shown in the list, and 23 per cent of all the coal hauled by all the roads.

The list follows and is given in the order of the tonnage transported by each road:

TABLE 40—*Illinois Coal Delivered to Illinois Railroads at the Mines for Shipment and for Use on Locomotives—1905.*

Number.	RAILROADS.	NUMBER OF—		TONS DELIVERED TO EACH RAILROAD FOR—		Total tons.
		Coun- ties.	Mines.	Ship- ment.	Loco- motives.	
1	Illinois Central.....	22	104	7,223,132	464,714	7,687,846
2	Chicago & Eastern Illinois.....	4	24	2,914,522	1,383	2,915,905
3	Chicago, Burlington & Quincy.....	13	46	2,521,752	22,679	2,544,431
4	Chicago & Alton.....	10	40	2,379,383	11,660	2,391,043
5	Wabash.....	9	35	2,190,109	112,652	2,302,761
6	Elgin, Joliet & Eastern.....	2	13	1,205,798	.....	1,205,798
7	Chicago, Peoria & St. Louis.....	5	19	1,186,864	53,145	1,240,009
8	Chicago & Northwestern.....	1	5	1,129,154	14,254	1,143,408
9	Baltimore & Ohio Southwestern.....	5	19	1,122,525	59,945	1,182,470

Table 40—Continued.

Number.	RAILROADS.	NUMBER OF—		TONS DELIVERED TO EACH RAILROAD FOR—		Total tons.
		Coun- ties.	Mines.	Ship- ment.	Loco- mo- tives.	
10	St. Louis, Troy & Eastern.....	1	3	901,707	2,464	904,171
11	Cleveland, Cincinnati, Chicago & St. Louis....	8	19	878,451	84,675	963,126
12	Southern Railroad.....	2	13	807,974	16,748	824,722
13	Chicago, Rock Island & Pacific.....	6	13	710,592	62,849	773,441
14	Louisville & Nashville.....	4	17	651,896	41,475	693,371
15	Vandalia Line.....	2	7	588,128	20,596	608,724
16	Mobile & Ohio.....	3	6	536,342	80,255	616,597
17	St. Louis, Iron Mountain & Southern.....	3	7	492,751	10	492,761
18	Macoupin County Railroad.....	1	2	470,367	.....	470,367
19	St. Louis & O'Fallon Electric.....	1	3	408,894	3,652	407,546
20	Iowa Central.....	2	6	395,791	12,129	407,920
21	Toledo, Peoria & Western.....	3	12	383,320	15,300	398,620
22	Atchison, Topeka & Santa Fé.....	4	14	357,301	37,423	394,724
23	St. Louis & Bellville Electric.....	1	3	320,670	.....	320,670
24	Peoria & Pekin Union.....	2	5	273,913	4,000	277,913
25	Pawnee Railroad.....	1	1	216,192	1,936	218,128
26	Coal Belt Electric.....	1	4	205,525	1,434	206,959
27	Illinois Southern.....	1	5	199,984	.....	199,984
28	Toledo St. Louis & Western.....	2	2	185,990	.....	185,990
29	Toluca, Marquette & Northern.....	1	1	165,528	413	165,941
30	Indiana, Illinois & Iowa.....	2	3	152,249	.....	152,249
31	Illinois Terminal.....	1	1	102,032	.....	102,032
32	Chicago, Milwaukee & St. Paul.....	2	2	92,496	9,116	101,612
33	Cincinnati, Hamilton & Dayton.....	1	3	79,958	.....	79,958
34	East St. Louis & Suburban Electric.....	1	1	52,212	775	52,987
35	Lake Erie & Western.....	2	3	43,200	22,000	65,200
36	Fulton County Narrow Gauge.....	1	3	40,968	2,596	43,564
37	Wabash, Chester & Western.....	1	2	36,162	6,000	42,162
38	Illinois Traction Electric.....	1	2	20,108	.....	20,108
39	Davenport, Rock Island & Northwestern.....	1	1	16,819	.....	16,819
40	Galesburg & Great Eastern.....	1	1	8,620	480	9,100
41	Quincy, Carrollton & St. Louis.....	1	1	3,661	1,619	5,280
42	Chicago, Lake Shore & Eastern.....	1	1	.....	4,000	4,000
Total, 42 railroads.....		.....	.....	31,666,038	.....	.....
By water, Illinois & Michigan Canal.....		.....	.....	1,035	.....	1,035
Total, State.....		.....	.....	31,667,073	1,172,177	32,839,250

This year forty-two of the fifty-six coal producing counties of the State, supplied the coal transported by the forty-two railroads as shown in the previous tables. Sangamon county, for the past several years, has held first place as supplying the largest number of tons for shipment, St. Clair county has been second for the past two years. This year Williamson takes second place, and also furnishes the largest number of tons shipped by any one county over one road.

The table by counties and railroads follows:

TABLE 41—Counties which have Produced the Commercial Coal of the State and the Tonnage Delivered to the Several Railroads in each for Transportation.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
1	Sangamon .....	7	...	.....	3,858,245
	Chicago & Alton .....	16	16	1,609,032	41.70
	Wabash .....	8	8	750,948	19.47
	Illinois Central .....	6	6	653,965	16.95
	Chicago, Peoria & St. Louis .....	6	6	300,788	7.80
	Baltimore & Ohio Southwestern .....	4	4	247,362	6.41
	Pawnee .....	1	1	216,192	5.60
	Cincinnati, Hamilton & Dayton .....	3	3	79,958	2.07
2	Williamson .....	4	...	.....	3,557,851
	Illinois Central .....	15	15	2,068,134	58.12
	Chicago & Eastern Illinois .....	8	8	864,772	24.31
	St. Louis, Iron Mountain & Southern .....	5	5	419,420	11.79
	Coal Belt Electric .....	4	4	206,525	5.78
3	St. Clair .....	7	...	.....	3,063,963
	Illinois Central .....	21	21	840,949	27.45
	Louisville & Nashville .....	13	13	590,629	19.28
	Southern Railroad .....	11	11	512,375	16.72
	St. Louis & O'Fallon Electric .....	3	3	403,894	13.18
	Baltimore & Ohio Southwestern .....	6	6	343,234	11.20
	St. Louis & Belleville Electric .....	3	3	320,670	10.46
	East St. Louis & Suburban Electric .....	1	1	52,212	1.71
4	Madison .....	6	...	.....	2,726,788
	St. Louis, Troy & Eastern .....	3	3	901,707	33.07
	Chicago, Peoria & St. Louis .....	5	5	644,844	23.65
	Vandalia Line .....	6	6	584,626	21.44
	Illinois Central .....	2	2	394,166	14.46
	Illinois Terminal .....	1	1	102,032	3.74
	Wabash .....	2	2	99,413	3.64
5	Vermilion .....	4	...	.....	2,350,294
	Chicago & Eastern Illinois .....	13	13	1,987,762	84.57
	Cleveland, Cincinnati, Chicago & St. Louis .....	5	5	192,578	8.19
	Wabash .....	3	3	149,851	6.38
	Illinois Traction Co. (Electric) .....	2	2	20,108	.86
6	Macoupin .....	8	...	.....	2,256,842
	Wabash .....	6	6	812,832	36.02
	Macoupin County Railroad .....	2	2	470,367	20.84
	Chicago, Burlington & Quincy .....	4	4	442,392	19.60
	Chicago & Alton .....	6	6	325,109	14.41
	Illinois Central .....	1	1	141,294	6.26
	Cleveland, Cincinnati, Chicago & St. Louis .....	2	2	43,020	1.91
	Chicago, Peoria & St. Louis .....	1	1	18,167	.80
	Quincy, Carrollton & St. Louis .....	1	1	3,661	.16

Table 41—Continued.

Number.	COUNTIES AND RAILROADS	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
7	Bureau .....	4	.....	.....	1,591,798
	Chicago & Northwestern .....	.....	5	1,129,154	70.94
	Chicago, Rock Island & Pacific .....	.....	1	220,366	13.84
	Chicago, Burlington & Quincy .....	.....	1	187,550	11.78
	Chicago, Milwaukee & St. Paul .....	.....	1	54,723	3.44
8	Fulton .....	4	.....	.....	1,286,138
	Chicago, Burlington & Quincy .....	.....	9	799,145	62.14
	Iowa Central .....	.....	2	240,400	18.69
	Toledo, Peoria & Western .....	.....	6	205,625	15.99
	Fulton County Narrow Gauge .....	.....	3	40,968	3.18
9	Grundy .....	3	.....	.....	1,230,436
	Elgin, Joliet & Eastern .....	.....	12	1,179,396	95.85
	Atchison, Topeka & Santa Fé .....	.....	6	29,680	2.41
	Chicago & Alton .....	.....	3	21,370	1.74
10	LaSalle .....	7	.....	.....	1,195,838
	Chicago, Burlington & Quincy .....	.....	11	508,619	42.53
	Illinois Central .....	.....	4	296,799	24.82
	Chicago, Rock Island & Pacific .....	.....	5	276,693	23.14
	Atchison, Topeka & Santa Fé .....	.....	5	83,549	6.99
	Wabash .....	.....	5	10,743	.89
	Indiana, Illinois & Iowa .....	.....	2	10,033	.84
	Chicago & Alton .....	.....	4	9,402	.79
11	Perry .....	3	.....	.....	1,056,095
	Illinois Central .....	.....	18	737,786	69.85
	Mobile & Ohio .....	.....	2	282,147	26.72
	Wabash, Chester & Western .....	.....	2	36,162	3.43
12	Clinton .....	2	.....	.....	796,272
	Baltimore & Ohio Southwestern .....	.....	5	500,673	62.88
	Southern .....	.....	2	293,599	37.12
13	Marion .....	2	.....	.....	796,254
	Illinois Central .....	.....	6	775,337	97.37
	Baltimore & Ohio Southwestern .....	.....	2	20,917	2.63
14	Peoria .....	4	.....	.....	706,695
	Peoria & Pekin Union .....	.....	4	217,428	30.77
	Toledo, Peoria & Western .....	.....	5	176,675	25.00
	Chicago, Burlington & Quincy .....	.....	6	157,201	22.24
	Iowa Central .....	.....	4	135,391	21.99
15	Jackson .....	3	.....	.....	631,829
	Illinois Central .....	.....	6	523,448	83.16
	Mobile & Ohio .....	.....	2	106,061	16.79
	St. Louis, Iron Mountain & Southern .....	.....	1	320	.05
16	Christian .....	4	.....	.....	630,335
	Illinois Central .....	.....	4	282,970	44.89
	Wabash .....	.....	2	280,453	44.49
	Cleveland, Cincinnati, Chicago & St. Louis .....	.....	2	56,573	8.98
	Baltimore & Ohio Southwestern .....	.....	2	10,339	1.64
17	Mercer .....	2	.....	.....	489,967
	Chicago, Burlington & Quincy .....	.....	5	298,473	60.92
	Chicago, Rock Island & Pacific .....	.....	4	191,494	39.08

Table 41—Continued.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
18	Randolph.....	3	.....	.....	467,208
	Illinois Southern.....	5	.....	199,984	42.80
	Mobile & Ohio.....	2	.....	148,134	31.71
	Illinois Central.....	4	.....	119,090	25.49
19	Marshall.....	5	.....	.....	426,331
	Toluca, Marquette & Northern.....	1	.....	165,528	38.83
	Atchison, Topeka & Santa Fé.....	1	.....	157,941	37.05
	Illinois Central.....	1	.....	81,741	19.17
	Chicago & Alton.....	1	.....	11,928	2.80
	Chicago, Rock Island & Pacific.....	1	.....	9,193	2.15
20	Montgomery.....	8	.....	.....	411,950
	Cleveland, Cincinnati, Chicago & St. Louis.....	3	.....	267,329	64.89
	Toledo, St. Louis & Western.....	1	.....	68,245	16.57
	Chicago & Eastern Illinois.....	1	.....	30,510	7.41
	Chicago, Burlington & Quincy.....	1	.....	22,188	5.39
	Wabash.....	2	.....	17,362	4.21
	Chicago & Alton.....	1	.....	3,435	.83
	Chicago, Peoria & St. Louis.....	1	.....	2,011	.50
	Illinois Central.....	1	.....	810	.20
21	Menard.....	2	.....	.....	383,454
	Chicago, Peoria & St. Louis.....	6	.....	220,994	57.63
	Chicago & Alton.....	3	.....	162,460	42.37
22	Logan.....	2	.....	.....	298,319
	Chicago & Alton.....	2	.....	165,064	52.87
	Illinois Central.....	4	.....	138,255	47.13
23	Saline.....	3	.....	.....	284,249
	Cleveland, Cincinnati, Chicago & St. Louis.....	4	.....	249,001	87.60
	Illinois Central.....	2	.....	30,124	10.60
	Louisville & Nashville.....	1	.....	5,124	1.80
24	Livingston.....	2	.....	.....	177,175
	Indiana, Illinois & Iowa.....	1	.....	142,216	80.27
	Wabash.....	4	.....	34,959	19.73
25	Tazewell.....	3	.....	.....	151,006
	Cleveland, Cincinnati, Chicago & St. Louis.....	1	.....	66,321	43.92
	Peoria & Pekin Union.....	1	.....	56,485	37.41
	Lake Erie & Western.....	2	.....	28,200	18.67
26	Franklin.....	3	.....	.....	122,741
	St. Louis, Iron Mountain & Southern.....	1	.....	73,011	59.48
	Chicago & Eastern Illinois.....	2	.....	31,478	25.65
	Illinois Central.....	1	.....	18,252	14.87
27	Bond.....	2	.....	.....	122,274
	Toledo, St. Louis & Western.....	1	.....	117,745	96.30
	Chicago, Burlington & Quincy.....	1	.....	4,529	3.70
28	Will.....	2	.....	.....	106,495
	Chicago & Alton.....	3	.....	80,083	75.20
	Elgin, Joliet & Eastern.....	1	.....	26,412	24.80
29	Woodford.....	2	.....	.....	92,301
	Atchison, Topeka & Santa Fé.....	2	.....	86,131	93.32
	Illinois Central.....	1	.....	6,170	6.68



Table 41—Concluded.

Number.	COUNTIES AND RAILROADS.	Number of railroads.	Number of mines.	Tons delivered to each railroad.	Total tons shipped and per cent to each road.
30	Henry .....	2			73,217
	Chicago, Burlington & Quincy .....		2	65,607	89.61
	Chicago, Rock Island & Pacific .....		1	7,610	10.39
31	Shelby .....	2			69,630
	Illinois Central .....		1	68,996	99.09
	Cleveland, Cincinnati, Chicago & St. Louis .....		1	634	.91
32	Gallatin .....	1			55,561
	Louisville & Nashville .....		2	55,561	100.00
33	Macon .....	3			50,992
	Wabash .....		3	33,548	65.79
	Illinois Central .....		2	15,944	31.27
	Vandalia Line .....		1	1,500	2.94
34	Putnam .....	1			37,768
	Chicago, Milwaukee & St. Paul .....		1	37,768	100.00
35	McLean .....	5			31,072
	Lake Erie & Western .....		1	15,000	48.27
	Illinois Central .....		2	10,552	33.96
	Cleveland, Cincinnati, Chicago & St. Louis .....		1	3,000	9.66
	Chicago & Alton .....		1	1,500	4.83
	Toledo, Peoria & Western .....		1	1,020	3.28
36	Rock Island .....	2			22,055
	Davenport, Rock Island & Northwestern .....		1	16,819	76.26
	Chicago, Rock Island & Pacific .....		1	5,236	23.74
37	Knox .....	2			18,120
	Chicago, Burlington & Quincy .....		1	9,500	52.43
	Galesburg & Great Eastern .....		1	8,620	47.57
38	Washington .....	2			16,582
	Illinois Central .....		1	16,000	96.48
	Louisville & Nashville .....		1	582	3.52
39	McDonough .....	1			12,175
	Chicago, Burlington & Quincy .....		2	12,175	100.00
40	Hancock .....	1			8,000
	Chicago, Burlington & Quincy .....		1	8,000	100.00
41	Stark .....	1			6,373
	Chicago, Burlington & Quincy .....		2	6,373	100.00
42	Kankakee .....	1			350
	Illinois Central .....		1	350	100.00
	Total tons handled .....			31,666,038	
	Shipped by water .....				1,035
	LaSalle—Illinois & Michigan canal .....			1,035	
	Total tons shipped—State .....			31,667,173	

The foregoing presentation is recapitulated, with additions, showing the number of mines in each county, thus accounting for all of the shipping mines of the State, also the tons delivered to locomotives, sold to local trade, and consumed at the mines.

The recapitulation is presented according to the largest number of tons produced.

**TABLE 42—Recapitulation of Counties from which Coal is Shipped, Number of Mines, Total Tons Shipped, Supplied to Locomotives, Sold to Local Trade and Consumed or Wasted at the Mines.**

Number.	COUNTIES.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.
1	Sangamon .....	33	4,346,823	3,858,245	102,999	219,307	166,272
2	Williamson .....	28	3,806,134	3,557,851	3,859	24,963	221,461
3	St. Clair .....	58	3,335,703	3,063,963	42,978	81,415	147,347
4	Madison .....	19	2,935,749	2,726,788	31,162	51,068	126,731
5	Macoupin .....	17	2,514,804	2,256,842	74,200	64,156	119,606
6	Vermilion .....	22	2,464,872	2,350,294	27,383	27,149	60,046
7	Bureau .....	7	1,722,063	1,591,798	23,370	31,562	75,333
8	LaSalle .....	18	1,633,009	*1,196,873	115,903	130,442	189,791
9	Fulton .....	20	1,379,604	1,286,138	32,435	26,258	34,773
10	Grundy .....	12	1,299,247	1,230,436	.....	20,065	48,726
11	Perry .....	22	1,253,208	1,066,065	142,131	26,249	28,733
12	Marion .....	7	1,086,350	796,254	169,449	58,506	62,141
13	Clinton .....	7	904,826	796,272	47,834	25,386	35,334
14	Christian .....	7	857,890	630,335	89,044	63,312	75,199
15	Jackson .....	9	793,890	631,829	63,626	-10,296	88,139
16	Peoria .....	19	768,278	706,695	15,310	30,281	15,992
17	Mercer .....	9	529,992	489,967	1,712	17,728	20,585
18	Marshall .....	3	503,776	426,331	32,242	21,119	24,084
19	Randolph .....	10	498,812	467,208	.....	12,001	19,603
20	Montgomery .....	6	468,197	411,950	9,556	32,534	14,158
21	Menard .....	9	435,793	383,454	3,103	25,443	23,793
22	Logan .....	4	384,288	293,319	25,052	42,359	23,558
23	Saline .....	5	319,295	284,249	16,383	8,107	10,556
24	Livingston .....	4	197,199	177,175	7,000	8,109	4,915
25	Macon .....	5	196,628	50,992	.....	137,449	8,187
26	McLean .....	3	175,010	31,072	32,178	93,860	17,900
27	Tazewell .....	4	170,148	151,006	.....	16,412	2,730
28	Franklin .....	3	136,788	122,741	.....	2,097	11,950
29	Bond .....	1	129,815	122,274	.....	3,321	4,220
30	Will .....	4	122,127	106,495	.....	7,512	8,120
31	Woodford .....	2	118,679	92,301	5,594	13,839	6,945

Table 42—Concluded.

Number.	COUNTIES.	No. of mines.	Total tons.	Tons shipped.	Tons supplied to locomotives at the mines.	Tons sold to local trade.	Tons consumed and wasted at the mines.
32	Shelby .....	2	105,928	69,630	16,778	13,191	6,329
33	Henry .....	3	83,618	73,217	.....	8,101	2,300
34	Washington .....	2	78,315	16,582	38,230	21,122	2,381
35	Gallatin .....	2	73,529	55,561	2,186	9,678	6,104
36	Putnam .....	1	42,964	37,768	.....	972	4,224
37	Knox .....	2	23,800	18,120	480	4,200	1,000
38	Rock Island.....	2	23,256	22,055	.....	212	989
39	Stark.....	2	12,760	6,373	.....	5,747	640
40	McDonough.....	2	12,175	12,175	.....	.....	.....
41	Hancock.....	1	8,500	8,000	.....	500	.....
42	Kankakee.....	1	700	350	.....	.....	350
	Totals.....	397	35,956,543	31,667,073	1,172,177	1,396,048	1,721,245

\* 1,035 tons shipped by Illinois and Michigan Canal.

## DAYS OF ACTIVE OPERATION.

The number of days of active operation of all the coal mines of the State, also the shipping and local mines, in connection with the number of mines and the number of men employed, is shown in the following table, by districts:

TABLE 43—Days of Active Operation, by Districts.

DISTRICT.	MINES, MEN AND AVERAGE WORKING DAYS.								
	ALL MINES.			SHIPPING MINES.			LOCAL.		
	Mines.	Men.	Days.	Mines.	Men.	Days.	Mines.	Men.	Days.
First .....	89	8,157	198.26	39	7,716	216.19	50	441	185.00
Second.....	178	7,761	170.55	29	6,932	210.86	149	829	162.70
Third.....	262	5,397	158.77	55	4,336	198.31	207	1,061	148.46
Fourth.....	101	7,441	185.44	43	7,030	205.65	56	391	171.00
Fifth.....	112	10,175	165.23	56	9,869	185.70	56	306	147.05
Sixth.....	127	10,636	185.63	92	10,401	187.20	35	235	181.80
Seventh.....	121	9,663	179.19	81	9,439	203.35	40	224	129.53
The State.....	990	59,230	173.70	397	55,743	198.49	593	3,487	158.00
1904.....	932	54,774	197.86	380	51,384	213.29	552	3,390	184.86
1903.....	933	49,814	192.10	353	46,494	221.82	580	3,320	170.72
1902.....	915	46,005	179.50	332	42,807	210.20	583	3,198	161.90
1901.....	915	44,143	174.30	331	40,940	204.40	584	3,217	157.00
1900.....	920	39,384	182.60	323	36,298	214.00	597	3,064	166.40

The flat average of working time for all the mines this year is shown to be 173.70 days; this is nearly one month of working days less than last year, and is less than shown for the past five years. The average working days, however, for the 397 shipping mines is 198.49; which is the correct standard by which to compute the possible time that miners and others were privileged to work. This class of mines, during the year, gave employment to 94.11 per cent of all the employés, and they put out 97 per cent of the total tons mined.

The average number of working days this year shows a decline of 15 days; however, employment was given to 8.48 per cent more men.

Considered by districts, it is found that the first, second, third and fourth, embracing what is known as the northern coal field, declined, on an average, more working days than the other three districts, while the latter gave work to 14.12 per cent more men than the first four districts named. The record of the State for the previous five years is also shown in the table.

The days of active operation of the shipping mines are shown in the following table, by districts for 13 years:

TABLE 44—*Days of Active Operation of Shipping Mines for a Series of 13 years.*

YEAR.	FIRST.		SECOND.		THIRD.		FOURTH.		FIFTH.		SIXTH.		SEVEN'H		THE STATE.	
	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.	Mines.	Days.
1893.....	38	220	26	228	80	215	56	251	101	233	.....	.....	.....	.....	301	229.6
1894.....	35	151.5	26	171	81	182.9	63	194.7	90	186.9	.....	.....	.....	.....	295	183.1
1895.....	26	159.4	23	176.1	66	173	64	185.5	94	192.6	.....	.....	.....	.....	278	182.2
1896.....	38	166	46	198	27	157	40	210	50	197	72	196	49	164	322	186
1897.....	35	166.9	46	183.2	19	158.6	36	207.7	50	202.1	73	194.8	51	165.5	310	185.5
1898.....	39	144.5	48	171.1	21	187.5	19	190	51	172.3	72	170.6	59	186.8	329	174.7
1899.....	37	208	45	211	23	185	37	221.6	50	201.6	72	201	57	206.6	321	205.7
1900.....	44	238	20	234	55	201	34	210	44	219	73	217	53	197	323	214
1901.....	39	235.5	26	202	53	188	33	185.7	46	207	77	223.6	57	182.4	331	204.4
1902.....	33	246.2	25	237.8	56	209	34	206.5	46	213.7	80	210.7	58	177.7	332	210.2
1903.. ...	34	251.6	25	243.24	50	222.67	45	210	46	224.4	83	224.69	70	200.78	353	221.82
1904.....	41	227	26	231.39	55	219.91	46	213.95	53	202.19	84	207.52	73	207.23	380	213.29
1905.....	39	216.19	29	210.86	55	198.31	45	205.65	56	185.70	92	187.20	81	203.35	397	198.49

Examined by districts, the range of activity, in the average days, is from 185.7 in the fifth to 216.19 in the first; while the fifth and sixth districts show an average less than is found for the State. Viewing the averages for the State for the series of years, this year discloses a less number of days of operation than for any year since 1898.

#### AVERAGE VALUE OF COAL.

The computations, to determine the average value of the different grades of coal at the mines, are based on the rate reported by each mine operator, and are arrived at by dividing the sum total of the sales of each grade by the number of tons sold. This average value for each grade is then applied to the total tons of coal of such grade, and the process followed and applied to the tonnage of the county, then to the district and finally to the State.

The table of total tons and values per ton is shown by districts and for the State for shipping mines, also for the state for local mines:

TABLE 45—*Total Tons and Average Value Per Ton of the Different Grades of Coal at the Shipping and Local Mines, by Districts, 1905.*

DISTRICT.	ALL GRADES.		MINE RUN COAL.		LUMP COAL.	
	Total tons.	Average value per ton.	Total tons.	Average value per ton.	Total tons.	Average value per ton.
First .....	3,252,282	\$1.333	304,356	\$1.57	1,821,149	\$1.581
Second .....	2,942,229	1.402	262,953	1.388	2,088,825	1.62
Third .....	2,774,498	1.058	580,447	1.058	1,289,164	1.347
Fourth .....	4,303,295	1.138	2,639,164	1.187	978,614	1.415
Fifth .....	7,329,825	0.954	1,850,109	0.973	3,540,991	1.198
Sixth .....	8,392,443	0.834	1,503,788	0.827	4,494,302	1.046
Seventh .....	6,961,971	0.905	1,843,385	0.913	1,934,729	1.173
Shipping mines .....	35,956,543	\$1.021	8,784,202	\$1.032	16,097,774	\$1.274
Local mines .....	1,226,831	\$1.612	464,356	\$1.627	721,547	\$1.657
Shipping mines, 1904 .....	35,779,517	\$1.063	10,269,285	\$1.019	16,097,003	\$1.388
Shipping mines, 1903 .....	33,676,537	1.032	9,897,087	0.982	15,169,856	1.275
Shipping mines, 1902 .....	28,824,750	0.942	6,752,680	0.90	14,198,500	1.173
All mines, 1901 .....	26,635,319	0.954	6,882,740	0.919	13,321,124	1.181
All mines, 1900 .....	25,153,929	0.895	5,554,418	0.794	13,927,899	1.10

TABLE 45A—*Total Tons and Average Value per Ton of the Different Grades of Coal at the Shipping and Local Mines, by Districts, 1905.*

DISTRICT.	EGG COAL.		NUT COAL.		PEA COAL.		SLACK COAL.	
	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.	Total tons.	Av. value per ton.
First.....	339,780	\$1.582	66,349	\$1.31	631,586	\$0.558	89,062	\$0.648
Second .....	25,660	1.451	14,390	1.35	524,313	0.664	76,088	0.668
Third .....	228,639	1.299	150,467	0.967	376,569	0.525	149,212	0.456
Fourth .....	51,471	1.316	193,142	0.997	314,155	0.433	126,749	0.284
Fifth.....	182,132	1.184	271,313	0.824	1,550,711	0.438	134,569	0.237
Sixth.....	268,597	1.011	399,094	0.673	1,421,287	0.345	305,405	0.236
Seventh .....	619,862	1.124	983,591	0.874	1,401,135	0.555	229,269	0.262
Shipping mines ....	1,716,111	\$1.237	2,028,346	\$0.864	6,219,756	\$0.479	1,110,354	\$0.301
Local mines .....	108	\$1.315	7,806	\$0.984	27,755	\$0.633	5,259	\$0.243
Shipping mines, 1904....	1,008,672	\$1.388	1,581,222	\$1.044	5,650,639	\$0.56	1,172,696	\$0.331
Shipping mines, 1903....	942,378	1.269	1,741,393	0.946	4,478,386	0.527	1,397,437	0.307
Shipping mines, 1902....	677,079	1.022	1,562,659	0.764	4,542,777	0.471	1,091,055	0.228
All mines, 1901.....	486,596	1.066	1,217,127	0.808	3,667,591	0.436	1,080,141	0.269
All mines, 1900.....	495,637	0.94	1,323,582	0.695	2,811,530	0.418	1,040,874	0.221

The record of the total tons of coal and of each grade, with the value per ton at the mines, has been brought forward and is presented for the past five years, in connection with the record for this year. This statement is for shipping mines only, excepting the years 1900 and 1901, which includes all mines, and offers an opportunity for a comparison of the tons of coal produced, of each grade; and the values of same per ton at the mines for a series of six years. The average value per ton of all grades this year is some less than for the two previous years, but it is considerably more than for the three years prior to the last named. For mine run coal the value this year shows a higher range than for any of the previous years, though the tonnage is less than for the two years preceding. Lump coal shows a decline of 12 cents per ton from last year, but a larger tonnage than for any previous year. However, the selling value is substantially the same as that for 1903, and, with the exception of this and last year, the highest value for the previous 18 years. Egg coal had a falling off in value from last year of 14 cents per ton, however, the number of tons sold this year were 70 per cent larger. Nut coal shows an increase in tonnage over last year of 28 per cent, with a diminution in value per ton of 18 cents, or 21 per cent. Pea coal shows an increase in tonnage from last year, but a decline of 8 cents per ton in value, while slack shows a slight decline in both tonnage and value.

The record of the tonnage of lump coal and its value per ton at the mines, has been a feature in these reports from year to year, and is again presented for 24 years:

TABLE 46—*Average Value of Lump Coal Per Ton at the Mine for a Series of 24 Years, 1882-1905.*

YEAR.	Tons of lump coal produced.	Average value per ton.	YEAR.	Tons of lump coal produced.	Average value per ton.
1882.....	9,115,653	\$1.51	1894.....	13,865,284	\$1.009
1883.....	10,030,991	1.48	1895.....	14,045,962	0.982
1884.....	10,101,005	1.26	1896.....	13,990,924	0.899
1885.....	9,791,874	1.17	1897.....	14,672,241	0.852
1886.....	9,246,435	1.10	1898.....	14,208,795	0.918
1887.....	10,278,890	1.085	1899.....	16,008,109	0.9186
1888.....	11,855,182	1.123	1900.....	13,927,899	1.099
1889.....	11,597,963	1.078	1901.....	13,321,124	1.181
1890.....	12,638,364	1.019	1902.....	*14,198,500	1.173
1891.....	12,900,224	1.008	1903.....	*15,169,856	1.275
1892.....	14,730,963	1.029	1904.....	*16,097,003	1.388
1893.....	16,112,899	1.025	1905.....	*16,097,774	1.274

\*Shipping mines.

The tons of coal produced by the shipping mines, each year, for four years, has been divided into the several grades, as known to the trade. The percentages of these grades are given in the following table for four years.

TABLE 47—*Percentages of the Different Grades of Coal of Shipping Mines for Four Years.*

YEAR.	PERCENTAGES OF—					
	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.
1902.....	23.43	49.23	2.35	5.45	15.76	3.78
1903.....	29.39	45.05	2.95	5.17	13.29	4.15
1904.....	28.66	45.55	2.74	4.32	15.51	3.22
1905.....	24.43	44.77	4.77	5.64	17.30	3.09

The grades, mine run, lump, and slack coal show a slight decrease from last year, combined, amounting to only 5.14 per cent, while egg, nut and pea coal have increased correspondingly.

## MINE EMPLOYES.

The usual classification of employes engaged working in and around the mines of the State is shown by districts in the following table:

TABLE 48—*Classification of Employes in the Shipping Mines, by Districts, with the Employes in Local Mines.*

DISTRICTS.	ALL EMPLOYES UNDERGROUND.				Above ground.	Total.
	Miners.	Other employes.	Boys.	Total.		
First.....	5,663	1,211	253	7,127	589	7,716
Second.....	5,070	1,137	190	6,397	535	6,932
Third.....	3,078	782	46	3,906	430	4,336
Fourth.....	4,694	1,499	224	6,417	633	7,050
Fifth.....	6,646	1,957	326	8,929	940	9,869
Sixth.....	6,989	2,064	261	9,534	1,067	10,401
Seventh.....	6,279	1,845	228	8,352	1,807	9,439
The State.....	38,419	10,515	1,528	50,462	5,281	55,743
Local mines.....	2,783	179	12	2,974	513	3,487
Total.....	41,202	10,694	1,540	53,436	5,794	59,230

The whole number of employes returned for the year is 59,230, of this number 55,743 or 94 per cent are employed at the shipping mines; this is an increase of 4,359 over last year of employes in this class of mines. Compared by districts, it is found, that, of the increased number, 1,591 are reported from the seventh district, which is more than double the number of any two of the other districts. The first, second, third and fourth districts combined, show an increase of 1,192, while the fifth, sixth and seventh have an increase of 3,167. In the classification, the number of miners shown as employed in shipping mines, includes all machine operatives working in the mines; of the total increase in the number of all employes, in the shipping mines, the class designated as miners proper has increased 3,125 or 71.7 per cent, leaving an increase of 1,234 or 28.3 per cent apportioned in all other classes of employes.

Separating the employes working underground from those above, shows that 10 per cent of all employes are on the surface; while of the number of all working underground about 24 per cent are workmen of various kinds, including boys as distinct from miners.



The classification of all employés working in and about all of the mines in the State is shown for seven years in the table following:

TABLE 49—*Classification of Employes in all Mines for Seven Years.*

YEAR.	ALL EMPLOYES UNDERGROUND.				Above ground.	Aggregate
	Miners.	Other employés.	Boys.	Total.		
1899 .....	26,449	5,455	1,295	33,199	3,792	36,991
1900 .....	27,875	6,047	1,281	35,203	4,181	39,384
1901 .....	30,829	7,595	1,326	39,750	4,393	44,143
1902 .....	32,875	7,273	1,397	41,518	4,487	46,005
1903 .....	34,904	8,323	1,276	44,793	5,111	49,814
1904 .....	37,987	9,812	1,562	49,361	5,413	54,774
1905 .....	41,202	10,694	1,540	53,436	5,794	59,230

The total number of employés at the mines in the State has increased, during the seven years shown in this table from 36,991 to 59,230, a gain of 22,239 or 60 per cent, which is an average of 3,177 for each year. This increase has been substantially in the class of workmen known as miners; considered separately it is found that the number has advanced from 26,449 in 1889 to 41,202 for the present year, being a gain of 14,753 or 55.78 per cent.

The number of boys employed underground in the mines shows a slight decrease from last year; the total number reported for the year is 1,540 which is an increase of 245 or 19 per cent during the seven years.

A full and comprehensive presentation of the number of employés in and about the mines is disclosed in the following table, by districts, and years, for 23 years:

TABLE 50—*Employes in Coal Mines of the State for a Series of Twenty-three Years, by Districts.*

YEAR.	DISTRICTS.							
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1883 .....	7,566	3,211	4,070	4,417	4,675	.....	.....	23,939
1884 .....	8,013	3,616	5,018	4,781	4,147	.....	.....	25,575
1885 .....	7,463	3,391	5,213	4,959	4,429	.....	.....	25,446
1886 .....	7,613	3,599	4,870	5,197	4,567	.....	.....	25,246

Table 50—Concluded.

YEAR.	DISTRICTS.							
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	The State.
1887 .....	7,915	4,068	4,903	4,934	4,984	.....	.....	26,804
1888 .....	8,623	4,914	5,250	5,086	5,537	.....	.....	29,410
1889 .....	9,014	4,498	5,117	5,679	5,764	.....	.....	30,076
1890 .....	8,258	4,099	5,171	5,685	5,361	.....	.....	28,574
1891 .....	9,128	5,089	6,458	5,881	6,395	.....	.....	32,951
1892 .....	9,572	4,865	6,453	6,542	6,200	.....	.....	33,632
1893 .....	8,831	5,974	6,964	7,021	6,780	.....	.....	35,390
1894 .....	10,280	6,713	7,112	7,760	6,621	.....	.....	38,477
1895 .....	9,644	7,184	6,607	8,005	7,190	.....	.....	38,630
1896 .....	9,380	7,103	2,134	4,467	5,758	4,374	3,816	37,032
1897 .....	7,632	6,872	1,635	4,021	5,672	4,100	3,856	33,788
1898 .....	7,377	6,799	1,800	4,030	6,093	4,662	4,265	35,026
1899 .....	7,498	6,631	1,799	4,655	6,401	5,008	4,999	36,991
1900 .....	7,722	5,693	3,864	5,545	5,983	5,885	4,692	39,384
1901 .....	7,872	6,306	3,760	6,950	6,837	6,871	5,547	44,143
1902 .....	8,035	6,583	4,268	5,679	7,564	7,929	5,947	46,005
1903 .....	7,717	6,860	4,363	6,771	8,393	8,354	7,356	49,814
1904 .....	8,038	7,362	4,808	7,293	9,541	9,665	8,067	54,774
1905 .....	8,157	7,761	5,397	7,441	10,175	10,636	9,663	59,230

During the last nine years the average number of all employés has been returned for each year; previous to this period the largest number employed at any one time was returned and taken as the number employed.

#### PRICES PAID FOR MINING.

The prices computed as paid for both hand and machine mining, shown in these reports from year to year, are based on the prices paid at each individual mine. The county tables returned to this office give the price paid at each mine; if more than one price prevails in any one county, which quite frequently occurs, the tons and prices

are computed separately, and from such calculations, an average is found for each county, then for the district and finally for the State. The shipping mines only are considered in these reckonings:

TABLE 51—*Average Prices Paid for Mining by Hand and with Machine, at Shipping and Local Mines, by Districts—1905.*

DISTRICT.	MINING BY HAND.				MACHINE MINING.	
	SHIPPING MINES—GROSS WEIGHT.		LOCAL MINES—SCREENED.		GROSS WEIGHT.	
	Tons.	Price per ton.	Tons.	Price per ton.	Tons.	Price per ton.
First .....	3,252,282	\$0.7769	144,525	\$0.8199	.....	.....
Second .....	2,942,229	0.7577	270,499	0.9532	.....	.....
Third .....	2,774,498	0.5841	332,881	0.7632	.....	.....
Fourth .....	3,994,728	0.5425	174,337	0.6223	308,567	\$0.4493
Fifth .....	4,463,383	0.5251	97,636	0.7576	*2,866,442	0.45
Sixth .....	4,616,490	0.5131	114,486	0.595	3,775,953	0.4505
Seventh .....	5,719,358	0.4699	83,976	0.5499	1,242,613	0.3923
The State .....	27,762,968	\$0.5782	1,218,340	\$0.7606	8,193,575	\$0.4432

\*In this district 8,491 tons were mined by machine in local mines at \$0.467 per ton, making a total of 8,202,066 tons mined by machines.

The average price paid for the year for hand mining is found to be 57.82 cents for the State; and ranging from 46.99 cents in the seventh district to 77.69 cents in the first.

The prices paid per ton for machine mining are found by the same process as stated for hand mining. The average prices paid in the four districts where machines are used, are found to be from 39.23 cents in the seventh district to 45.05 in the sixth, forming an average of 44.32 cents for the State.

The differential for the year between hand and machine mining in the fourth district was 9.32 cents; in the fifth 7.51; in the sixth 6.26; in the seventh 7.76.

The average prices paid for hand and machine mining for the past four years is shown, by districts, in the following table:

TABLE 52—*Average Prices Paid at Shipping Mines for Both Hand and Machine Mining by Districts for Four Years, 1902-1905.*

DISTRICT.	HAND MINING FOR THE YEARS—				MACHINE MINING FOR THE YEARS—			
	1902.	1903.	1904.	1905.	1902.	1903.	1904.	1905.
First .....	\$0.73	\$0.737	\$0.786	\$0.7769	\$0.56	.....	.....	.....
Second .....	0.72	0.723	0.776	0.7577	.....	.....	.....	.....
Third .....	0.555	0.567	0.607	0.5841	0.45	.....	.....	.....
Fourth .....	0.52	0.529	0.561	0.5425	0.404	\$0.475	\$0.444	\$0.4493
Fifth .....	0.49	0.508	0.547	0.5251	0.42	0.435	0.473	0.45
Sixth .....	0.482	0.4944	0.535	0.5131	0.42	0.4337	0.475	0.4505
Seventh .....	0.461	0.504	0.495	0.4699	0.365	0.43	0.421	0.3923
The State .....	\$0.5635	\$0.57	\$0.593	\$0.5782	\$0.395	\$0.4337	\$0.466	\$0.4432

Here is presented in a condensed form the average prices paid for both hand and machine mining, in shipping mines only, for the past four years:

#### PAYMENT OF WAGES.

The payment of wages to the men working at the mines is next in importance to the rate of wages. The following table presents the record for the year:

TABLE 53—*Frequency of the Payment of Wages at Shipping and Local Mines, by Districts—1905.*

DISTRICT.	PAYMENTS MADE.								
	WEEKLY.			SEMI-MONTHLY.			MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
First .....	.....	.....	.....	39	7,716	3,252,282	.....	.....	.....
Second .....	5	73	23,724	23	6,829	2,909,465	1	30	9,040
Third .....	1	14	8,500	54	4,322	2,765,998	.....	.....	.....
Fourth .....	.....	.....	.....	45	7,050	4,303,295	.....	.....	.....
Fifth .....	.....	.....	.....	56	9,869	7,329,825	.....	.....	.....
Sixth .....	.....	.....	.....	92	10,401	8,392,443	.....	.....	.....
Seventh .....	.....	.....	.....	81	9,439	6,981,971	.....	.....	.....
Shipping mines.	6	87	32,224	390	55,626	35,915,279	1	30	9,040
Local mines .....	209	1,008	272,622	383	2,439	944,509	1	40	15,700
The State .....	215	1,095	304,846	773	58,065	36,859,788	2	70	24,740

This record shows that, at the large mining plants, the payment of wages semi-monthly to mine employés, has now become quite general. The percentages of mines, men and tons, in the matter of the payment of wages are shown in the following table for 13 years.

TABLE 54—*Percentages of Mines, Men and Tons in Reference to Payment of Wages for a Series of Thirteen Years.*

YEAR.	WAGES PAID WEEKLY.			WAGES PAID SEMI-MONTHLY.			WAGES PAID MONTHLY.		
	Mines.	Men.	Tons.	Mines.	Men.	Tons.	Mines.	Men.	Tons.
1893.....	67	27.6	26.2	25	56	56.4	8	16.4	23.4
1894.....	43	11.7	9.7	46	66.6	67.2	11	21.7	23
1895.....	31	6.5	4.2	57	78.3	74.4	12	1.52	21.4
1896.....	49	7.8	5.3	37.5	74.6	12	12	17.6	21.2
1897.....	46.78	6.91	4.34	39.04	74.60	73.71	14.18	18.4	21.9
1898.....	32.23	5.36	4.99	62.32	90.25	89.78	5.45	4.38	5.23
1899.....	24.75	4.67	3.04	71.54	93.02	95.75	3.71	2.31	2.21
1900.....	33	4.12	2.57	64.8	95.04	96.84	2.2	.48	.59
1901.....	28.85	2.79	1.44	70.60	97.03	98.44	.55	.18	.12
1902.....	47	4.55	1.84	52.13	95.12	98.06	.87	.33	.1
1903.....	27.76	2.63	1.10	71.70	97.14	98.78	.54	.23	.12
1904.....	34.22	3.23	1.86	65.35	96.65	96.07	.43	.12	.07
1905.....	21.72	1.85	.82	78.08	98.03	99.11	.20	.12	.07

Here it will be noticed that, for the past eight years, wages have been paid semi-monthly to over 90 per cent of the employés at the larger plants; this year less than 2 per cent of the men are paid weekly and monthly.

#### EARNINGS OF MINERS.

The earnings of coal miners, have been shown in these reports from year to year, and are here presented for this year in connection with the same record for the past four years.

The showing for the year is by districts, with totals and averages for the State:

TABLE 55—*Hand Mining, Earnings of Coal Miners in Shipping Mines for the Year Ended June 30, 1905—By Districts.*

DISTRICT.	No. of miners.	Average days worked.	Total tons mined.	Average rate per ton.	Gross earnings.	Average tons per man per year.	Average earnings per man per year.	Average tons per man per day.	Average earnings per man per day.
First.....	5,663	216.19	3,252,282	\$0.7769	\$2,526,698	574.30	\$446.18	2.66	\$2.06
Second .....	5,070	210.86	2,942,229	0.7577	2,229,327	580.32	439.71	2.75	2.09
Third.....	3,078	198.31	2,774,498	0.5841	1,620,584	901.40	526.51	4.55	2.65
Fourth.....	4,107	205.65	3,755,959	0.5425	2,037,608	914.53	496.13	4.45	2.41
Fifth.....	4,596	185.70	4,463,383	0.5252	2,344,169	971.15	510.05	5.23	2.75
Sixth.....	3,907	187.20	4,348,849	0.5131	2,231,394	1,113.09	571.13	5.95	3.05
Seventh.....	4,764	203.35	5,029,281	0.4699	2,363,259	1,055.68	496.07	5.19	2.44
The State.....	31,185	198.49	26,566,481	\$0.5782	\$15,353,039	851.90	\$492.32	4.29	\$2.48
1904.....	28,717	213.3	27,091,501	\$0.5989	\$16,233,869	943.39	\$565.30	4.42	\$2.65
1903.....	25,878	224.1	24,455,228	0.5699	14,043,280	944.63	542.67	4.22	2.42
1902.....	24,229	209.8	20,616,155	0.5645	11,638,120	850.88	480.84	4.06	2.29
1901.....	22,206	203.0	18,227,130	0.5690	10,372,670	821.00	467.11	4.04	2.30

In the exhibit only miners are considered, working at the mines where coal is mined by hand.

## MACHINE MINING.

The record of the undercutting of coal by machines for the year is shown in the table following, by districts, and, in the same connection the record for the past five years:

TABLE 56—*Machine Mining—Mines, Men, Machines, Tons; by Districts—1905.*

DISTRICTS.	MINES IN WHICH MACHINES ARE USED.								
	EXCLUSIVELY.				IN PART.			TOTAL.	
	Mines.	Men.	Machines.	Tons.	Mines.	Machines.	Tons.	Mines.	Machines.
Fourth .....	4	152	29	235,767	3	17	72,800	7	46
Fifth .....	17	2,067	217	2,874,933	.....	.....	.....	17	217
Sixth .....	26	2,183	282	2,999,736	10	111	776,217	36	393
Seventh .....	5	233	32	296,135	11	96	946,478	16	128
The State .....	52	4,635	560	6,406,571	24	224	1,795,495	76	784
1904 .....	40	3,691	400	4,903,184	27	223	2,237,343	67	623
1903 .....	33	4,378	292	4,393,052	35	230	3,253,725	68	522
1902 .....	34	4,811	308	4,460,025	30	156	2,037,096	64	464
1901 .....	29	3,499	280	3,761,270	34	184	2,015,369	63	464
1900 .....	38	3,883	272	3,765,601	29	158	1,817,993	67	430

The number of mines using machines exclusively has increased over last year 30 per cent; the number of men employed at these mines 25.58 per cent; the number of machines used 40 per cent; the tons of coal cut 30.66 per cent. The growth in each particular named has been more than for any previous year. The total number of machines in use has increased from last year 25.84 per cent, and the number of tons cut 13.47 per cent. The increase in the number of machines, in mines where exclusively used, has been 106 per cent during the six years shown in the table; the number of mines, 36.84 per cent; men employed 19.37 per cent; tons undercut 70.13 per cent. For the past two years machine mining has been confined exclusively to the fourth, fifth, sixth and seventh districts.

The different machines in use and the districts where used is shown in the following table:

TABLE 57—*Name and Number of Mining Machines in Use, by Districts—1905.*

DISTRICT.	Harrison.	Ingersoll-Sergeant.	Sullivan.	Morgan-Gardner.	Yock.	Jeffrey.	Herzler & Henninger.	Goodman.	Link Belt.	Butler.	Total.
Fourth .....	32	...	10	3	...	...	...	...	...	1	46
Fifth .....	101	45	26	16	5	5	...	19	...	...	217
Sixth .....	72	105	110	...	28	21	40	13	4	...	363
Seventh .....	31	28	37	...	...	15	...	17	...	...	128
The State .....	236	178	183	19	33	41	40	49	4	1	784
1904 .....	210	142	131	27	27	29	22	29	4	2	623
1903 .....	178	95	82	15	31	50	33	15	21	2	522
1902 .....	160	133	36	22	28	32	20	29	3	2	465
1901 .....	178	132	33	32	24	33	13	...	19	...	464
1900 .....	197	119	40	19	5	30	1	...	19	...	430

The number of machines in use at all mines has increased from 430 in 1900 to 784 for this year; the table reveals the increase or decrease in the number of each particular kind of coal cutting machine employed.

The mines in which machines are used exclusively for mining coal are shown in the following table, also the number and kind of machine with number of tons produced at each mine:

TABLE 58—*Mines in which Machines are Used Exclusively.*

Number.	COMPANY.	Location.	MACHINES.		Tons.
			No.	Name.	
1	Chicago, Wilm. & Ver. Coal Co.	Thayer .....	12	{ 1 Goodman .....	380,732
				{ 11 Morgan-Gardner .....	
2	Madison Coal Co. No. 6 .....	Divernon .....	13	{ 5 Jeffrey .....	341,062
				{ 8 Goodman .....	
3	Illinois Collieries, No. 1 .....	Virden .....	10	Goodman .....	340,736
4	Donk Bros. Coal & Coke Co. ....	Collinsville .....	30	Sullivan .....	329,135
5	Mt. Olive & Staunton Coal Co. ....	Staunton .....	9	{ 6 Jeffrey .....	323,371
				{ 3 Sullivan .....	
6	Superior Coal Co., No. 1 .....	Gillespie .....	12	Ingersoll-Sergeant .....	282,711
7	Muren Coal & Ice Co .....	New Baden .....	25	{ 18 Yock .....	269,344
				{ 3 Ingersoll-Sergeant .....	
				{ 2 Sullivan .....	
8	Lumaghi Coal Co., No. 2 .....	Collinsville .....	27	{ 2 Jeffrey .....	225,277
				{ 2 Sullivan .....	
9	Consolidated Coal Co., No. 6 ....	Staunton .....	22	{ 18 Harrison .....	219,826
				{ 4 Yock .....	
10	Consolidated Coal Co., No. 10 ...	Mt. Olive .....	19	{ 18 Harrison .....	210,837
				{ 1 Yock .....	
11	Consolidated Coal Co., No. 8 ....	do .....	19	Harrison .....	204,161
12	Superior Coal Co., No. 2 .....	Gillespie .....	14	Ingersoll-Sergeant .....	201,127
13	Odin Coal Co .....	Odin .....	8	{ 4 Jeffrey .....	188,821
				{ 4 Link Belt .....	



Table 58—Concluded.

Number.	COMPANY.	Location.	MACHINES.		Tons.
			No.	Name.	
14	Madison Coal Co .....	Mt. Olive .....	17	Ingersoll-Sergeant .....	172,764
15	Consolidated Coal Co., No. 7....	Staunton .....	21	Harrison .....	169,657
16	Superior Coal Mining Co .....	Belleville .....	12	Herzler & Henninger .....	158,116
17	Christian County Coal Co .....	Taylorville .....	16	Harrison .....	147,299
18	Hillsboro Coal Co .....	Hillsboro .....	5	Morgan-Gardner .....	145,838
19	Consolidated C. Co., Abby No. 3.	Collinsville .....	10	Harrison .....	144,527
20	Consolidated C. Co., Heinz Bluff ..	do .....	10	Harrison .....	143,297
21	Mt. Olive & Staunton Coal Co ..	Staunton .....	4	Goodman .....	142,673
22	Trenton Coal Co .....	Trenton .....	22	Ingersoll-Sergeant .....	141,962
23	Cartersville District Coal Co .....	Marion .....	13	Sullivan .....	141,067
24	Kerns-Doniewald Coal Co .....	Worden .....	7	{ 8 Jeffrey .....	135,910
				{ 2 Goodman .....	
25	Walnut Hill Coal Co .....	Belleville .....	10	{ 8 Sullivan .....	129,798
				{ 4 Herzler & Henninger .....	
26	Consolidated Coal Co., No. 14...	Staunton .....	16	Sullivan .....	119,435
27	Zeigler Coal Co .....	Zeigler .....	12	{ 6 Jeffrey .....	103,223
				{ 6 Ingersoll-Sergeant .....	
28	Lumaghi Coal Co., No. 3 .....	Collinsville .....	10	Sullivan .....	98,641
29	Glendale Coal Co .....	Belleville .....	5	Herzler & Henninger .....	83,609
30	Avery Coal Mining Co .....	do .....	6	Herzler & Henninger .....	78,718
31	Oak Hill Coal Co .....	do .....	5	Harrison .....	71,560
32	Manufacturers & Consrs. C. Co	Decatur .....	12	Harrison .....	71,479
33	Consolidated C. Co., Green Mt.	Belleville .....	9	{ 8 Harrison .....	65,884
				{ 1 Sullivan .....	
34	Consolidated Coal Co .....	Trenton .....	20	Harrison .....	63,460
35	Hippard Coal Co., No. 1 .....	Belleville .....	7	{ 5 Herzler & Henninger .....	53,323
				{ 1 Sullivan .....	
36	Illinois Fuel Co .....	Sparta .....	3	{ 1 Harrison .....	40,845
				{ Goodman .....	
37	Carlinville Coal Co .....	Carlinville .....	12	Harrison .....	37,928
38	Lebanon Coal Mining Assn .....	O'Fallon .....	10	Yock .....	34,040
39	Consolidated Coal Co., Hornsby	Mt. Olive .....	11	Harrison .....	28,539
40	Consolidated Coal Co., Gartside.	Belleville .....	5	Harrison .....	27,805
41	Breese-Trenton Mining Co .....	Trenton .....	13	Ingersoll-Sergeant .....	23,573
42	Consolidated C. Co., Schureman	Belleville .....	4	Harrison .....	20,381
43	Inter-State Coal Co .....	Worden .....	6	Ingersoll-Sergeant .....	18,485
44	Salt Fork Coal Co .....	Missionfield .....	1	Butler .....	16,989
45	St. Louis & O'Fallon Coal Co ..	Belleville .....	4	Sullivan .....	16,976
46	Consolidated Coal Co., No. 15...	Mt. Olive .....	10	Sullivan .....	11,069
47	Beatty Coal Co .....	Mascoutah .....	4	{ 2 Harrison .....	11,050
				{ 2 Sullivan .....	
48	Benton Coal Co .....	Benton .....	3	{ 1 Ingersoll-Sergeant .....	7,000
				{ 1 Harrison .....	
49	Wm. Neil & Co .....	Bunker Hill .....	2	{ 1 Sullivan .....	5,611
				{ Harrison .....	
50	Schmidgall Coal Co .....	Murphysboro .....	1	Harrison .....	4,000
51	Thomas Press Brick Co .....	Golden Eagle .....	2	Ingersoll-Sergeant .....	2,880
			560		6,406,571

This list includes 34 operators having the management of 51 coal mining plants, and using 560 machines; the product of these mines being 6,406,571 tons. Compared with last year the increase is 11 mines, 160 machines and 1,503,387 tons.

The mines at which mining machines have been used cutting only a part of the product are shown in the following table:

TABLE 59—*Mines in which only Part of the Output is Cut by Machines.*

Number.	COMPANY.	Location.	MACHINES.		Tons.
			No.	Name.	
1	Madison Coal Co. No. 2.....	Glen Carbon...	22	Ingersoll-Sergeant.....	195,205
2	Madison Coal Co. No. 4.....	do.....	27	Ingersoll-Sergeant.....	182,900
3	Big Muddy Coal & Iron C. No. 6	Murphysboro ..	13	Harrison .....	180,600
4	Peabody Coal Co. No. 3.....	Marion .....	8	{ 3 Jeffrey..... 5 Goodman..... }	167,286
5	Big Muddy C. & I. Co. Harrison.	Murphysboro ..	14	Harrison .....	137,467
6	Royal Coal & Mining Co .....	Belleville .....	18	Sullivan.....	135,180
7	Willis Coal & Mining Co.....	Willisville .....	10	{ 5 Goodman..... 5 Sullivan..... }	115,608
8	Big Muddy C. & Iron Co. No. 8.	Clifford .....	16	{ 13 Sullivan .....	106,810
				{ 2 Harrison.....	
				{ 1 Ingersoll-Sergeant.. }	
9	DeCamp Coal Co.....	Staunton .....	4	Goodman .....	100,850
10	Edwardsville Coal Co .....	Edwardsville ..	12	Ingersoll-Sergeant.....	94,509
11	Peabody Coal Co. No. 2 .....	Marion .....	4	Jeffrey.....	90,722
12	Gartside Coal Co. No. 4 .....	Murphysboro ..	6	Ingersoll-Sergeant.....	55,629
13	Gus Blair Big Muddy Coal Co ..	do.....	5	Ingersoll-Sergeant.....	46,331
14	Kelly Coal Co.....	Himrod .....	10	Sullivan .....	42,547
15	Gartside Coal Co. No. 3.....	Murphysboro ..	7	Ingersoll-Sergeant.....	42,308
16	Lenz Coal Co .....	Belleville .....	4	Jeffrey.....	26,042
17	Moweaqua C. Min. & Mfg. Co...	Moweaqua .....	3	Morgan-Gardner.....	20,295
18	Sandoval Coal Co.....	Sandoval.....	6	Sullivan .....	17,767
19	O'Fallon Coal Mining Co.....	O'Fallon .....	4	Harrison.....	12,434
20	Blue Mound Coal Co.....	Blue Mound....	4	Harrison.....	9,958
21	Henrietta Coal Co.....	Edwardsville ..	8	Herzler & Henninger.....	6,080
22	Valley Coal & Mining Co.....	Mascoutah .....	3	Harrison.....	5,250
23	Willis Coal & Mining Co.....	Percy .....	4	Goodman.....	2,307
24	Chicago & Big Muddy C. & C. C	Marion .....	2	Jeffrey.....	1,515
25	New Staunton Coal Co.....	Staunton.....	3	Goodman.....	
26	Western Coal Mining Co.....	Bush .....	2	Sullivan .....	
27	Chicago Marion Coal Co.....	Marion .....	5	{ 3 Sullivan .....	1,795,495
				{ 2 Ingersoll-Sergeant.. }	
			224		

In this class of mines, 224 machines have been used, producing 1,795,495 tons of coal. The same class of mines last year operated 223 machines and produced 2,237,243 tons of coal.

### POWDER USED IN MINES.

The shipping mines in which powder is used as a force in bringing down the coal, are set forth in the following table, arranged by districts. The different mines are tabulated according to output, the largest producer heading the list in each district.

TABLE 60—*Shipping Mines in which Powder is Used for Blasting Coal.*

#### FIRST DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	LaSalle Co. Carbon Coal Co.*.....	LaSalle .....	178,681	355	9	.03	19853.44
2	Cardiff Coal Co.*.....	Cardiff .....	177,529	221	2,175	9.84	81.62
3	Braceville Coal Co., No. 5*.....	Braceville .....	164,224	259	2,000	7.72	82.11
4	LaSalle Co. Carbon Coal Co.*.....	LaSalle .....	162,602	250	98	.39	1,659.20
5	LaSalle Co. Carbon Coal Co.*.....	.do.....	147,730	228	11	.05	13430.
6	LaSalle Co. Carbon Coal Co.*.....	.do.....	137,665	216	12	.06	11472.08
7	Acme Coal Co.....	Streator .....	137,046	233	2,000	8.58	68.52
8	Star Coal Co.....	.do.....	136,687	164	5,668	34.56	24.12
9	Big Four Wil. Coal Co., No. 5*.....	Carbon Hill.....	134,014	231	20	.08	6,700.70
10	Chicago, Wil. & Ver. Coal Co.*.....	Streator .....	127,966	222	1,000	4.50	127.97
11	Big Four Wil. Coal Co., No. 3*.....	Carbon Hill.....	122,211	243	30	.12	4,073.70
12	Mathiessen & Hegeler Zinc Co.†.....	LaSalle .....	101,685	65	2,927	45.03	34.74
13	Wilmington Star M. Co., No. 6*.....	Coal City .....	96,434	165	2,071	12.55	46.56
14	Braceville Coal Co., No. 6*.....	Braceville .....	91,395	135	1,500	11.11	60.93
15	Wil. Coal M. & Mfg. Co., No. 4*.....	Diamond.....	86,308	195	2,170	11.13	39.77
16	Illinois Zinc Co.†.....	Peru.....	77,558	102	2,146	21.04	36.14
17	Chicago, Wil. & Ver. Coal Co.†.....	Streator .....	72,817	116	800	6.90	91.06
18	Wilmington Star M. Co., No. 5*.....	Coal City .....	64,617	104	305	2.93	211.86
19	Howe Coal Co.....	Streator .....	31,854	36	637	17.70	50.01
20	Wilmington Star M. Co., No. 7*.....	Coal City .....	30,818	85	632	7.44	362.56
21	Wil. Coal M. & Mfg. Co.*.....	Diamond.....	29,412	100	48	.48	612.75
22	Star Coal Co.*.....	Streator.....	19,463	55	266	4.84	73.17
23	Wil. Coal M. & Mfg. Co., No. 5*.....	Diamond.....	14,865	150	500	3.33	29.73
24	North Wil. Coal Co.*.....	Seneca .....	11,169	30	150	5.00	74.64

Table 60—Continued.

FIRST DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
25	Louis Evans & Son.....	Kangley.....	9,000	6	100	16.66	90.00
26	Johnson Co-op. Coal Co.....	Fairbury.....	9,000	10	400	40.00	22.50
27	Phoenix Coal & M. Co.....	Cornell.....	8,570	20	310	15.50	27.65
28	Marshall & Haar.....	Streator.....	2,100	6	50	8.33	42.00
29	Consolidated Coal & Iron Co.....	Reddick.....	700	9	35	3.89	20.00
30	Farmers Fuel Co.....	Streator.....	566	4	50	12.50	11.32
	The district.....		2,384,716	4,015	28,120	7.00	84.80
	Pillar and room mines.....		437,208	553	12,177	22.02	35.90

\* Long wall mines. † Blasted off the solid.

## SECOND DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Illinois Third Vein Coal Co.* .....	Ladd.....	271,088	509	2	.....	.....
2	Empire Coal Co.† .....	Gilchrist.....	174,780	166	11,014	66.35	15.87
3	Coal Valley Mining Co.† .....	Sherrard.....	134,618	114	7,246	63.56	18.58
4	Wenona Coal Co.....	Wenona.....	110,175	180	200	1.11	550.88
5	Kewanee Coal Co. No. 1.....	Kewanee.....	73,054	105	1,300	12.38	56.20
6	Alden Coal Co.† .....	Wanlock.....	69,168	88	5,613	63.79	12.32
7	Alden Coal Co.† .....	do.....	69,078	62	3,874	62.48	17.83
8	Coal Valley Mining Co.† .....	Cable.....	57,674	46	2,691	58.50	21.43
9	St. Paul Coal Co.* .....	Granville.....	42,964	160	500	3.13	85.93
10	Silvis Mining Co.† .....	Carbon Cliff.....	17,720	21	364	17.33	48.68
11	Yates City Coal Co.† .....	Yates City.....	14,500	30	750	25.00	19.33
12	B. B. Peterson† .....	Cable.....	11,800	12	165	13.75	71.52
13	Wyoming Coal Co.† .....	Wyoming.....	7,800	20	800	40.00	9.75
14	Docherty Bros.† .....	Boden.....	5,600	11	350	31.82	16.00
15	Volunteer Coal Co.† .....	Coal Valley.....	5,536	10	175	17.50	31.63
16	Watson & Higbee† .....	Wyoming.....	4,960	10	225	22.50	22.04

Table 60—Continued.

## SECOND DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
17	Jones & Hayburn †.....	Viola .....	3,840	8	97	12.13	39.59
18	Alfred Lilliman †.....	Cable .....	3,434	6	75	12.50	45.79
19	Briar Bluff Mining Co.† .....	Briar Bluff.....	1,524	6	200	33.33	7.62
	The district .....	.....	1,079,313	1,564	35,641	22.79	30.28

\* Long wall mines. † Blasted off the solid.

## THIRD DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Maplewood Coal Co. No. 1 †.....	Peoria .....	235,948	177	13,106	74.05	18.00
2	Monmouth Coal Co. No. 1 †.....	Brereton .....	214,123	196	10,343	52.77	20.70
3	Whitebreast Fuel Co. of Ill. "E" †....	Dunfermline ...	158,500	166	7,691	46.33	20.61
4	Big Creek Coal Co. No. 2 † .....	St. David .....	132,982	150	7,326	48.84	18.15
5	Clark Coal & Coke Co. "A" †.....	Peoria .....	125,120	99	6,478	71.98	19.31
6	Norris Coal Mining Co. †.....	Norris.....	106,000	110	4,600	41.82	23.04
7	Greenview Coal & M. Co. †.....	Greenview.....	103,487	100	4,687	46.87	22.08
8	Athens Mining Co. †.....	Athens.....	92,682	96	4,173	43.47	22.21
9	Applegate & Lewis †.....	Cuba .....	89,000	125	3,475	27.80	25.61
10	Walschlag Coöperative Coal Co. †....	Peoria .....	84,900	50	5,489	109.78	15.47
11	Newsam Bros. †.....	do .....	82,989	88	4,164	47.32	19.93
12	Wabash Coal Co. No. 2 †.....	Athens.....	72,470	125	3,227	25.82	22.46
13	Tazewell Coal Co. †.....	Pekin .....	71,863	80	3,267	40.84	22.00
14	Sholl Bros. No. 3 †.....	Peoria .....	70,187	80	3,594	44.93	19.53
15	Newsam Bros. †.....	do .....	66,554	71	3,366	47.41	19.77
16	Whitebreast Fuel Co. of Ill. †.....	Dunfermline....	63,710	71	3,109	43.79	20.49
17	East Cuba Coal Co. †.....	Cuba .....	61,240	70	3,000	42.86	20.41
18	Newsam Bros. †.....	Peoria .....	58,339	58	2,842	49.00	20.53
19	Phoenix Coal Co. No. 1 †.....	do .....	57,485	75	3,243	43.31	17.70
20	Collier Coöperative Coal Co. †.....	Bartonville .....	56,200	42	3,120	74.29	18.01

Table 60—Continued.

## THIRD DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
21	Howarth & Taylor †.....	Edwards .....	54,086	62	3,362	54.23	16.08
22	Maplewood Coal Co. No. 2†.....	Peoria .....	49,999	50	2,670	53.40	18.78
23	Middletown Coal Co. No. 1†.....	Middletown ....	44,444	51	2,173	42.61	20.45
24	Vickery Bros.†.....	Peoria .....	41,000	40	3,000	75.00	13.67
25	Big Creek Coal Co. No. 1†.....	St. David.....	40,808	50	1,893	37.86	21.56
26	Foley Coal Co. No. 1†.....	Canton .....	40,225	40	1,827	45.68	22.02
27	Tallula Coal Co.†.....	Tallula .....	40,181	45	1,512	33.60	26.57
28	South Mountain Coal Co.†.....	Petersburg .....	37,503	43	1,564	36.37	33.98
29	Central Coal and Coke Co.†.....	Elmwood .....	32,642	50	1,600	32.00	20.40
30	Petersburg Coal Mining Co.†.....	Petersburg .....	31,472	39	1,571	40.28	20.03
31	Canton Union Coal Co.†.....	Canton .....	31,400	30	1,245	41.50	25.22
32	Clark Coal and Coke Co., "B" †.....	Peoria .....	31,333	50	1,552	31.04	20.18
33	Isaac Wantling & Son †.....	do .....	29,000	35	1,400	40.00	20.71
34	Rentz Bros.†.....	Kewanee .....	26,000	36	2,420	67.22	10.74
35	Spoon River Coal Co.†.....	Galesburg .....	25,064	20	1,200	60.00	20.89
36	Erie Star Coal Co.†.....	Peoria .....	22,000	26	1,620	62.31	13.58
37	W. E. Foley †.....	Mapleton .....	21,887	32	950	29.69	23.04
38	Lake Erie Coal and Mining Co.†.....	Peoria .....	18,800	24	1,220	50.83	15.41
39	Farmington Coal Co.†.....	Farmington ....	14,449	21	811	38.62	17.62
40	German Coal Co.†.....	Mapleton .....	14,312	14	650	46.43	22.02
41	Monarch Coal Mining Co.†.....	Monmouth .....	12,402	20	665	33.25	18.65
42	Essex & Fritz Coal Co. No. 1†.....	Galesburg .....	11,200	18	610	33.89	18.36
43	Jas. Walker †.....	Mapleton .....	10,000	16	500	31.25	20.00
44	Orchard Mines*†.....	do .....	9,977	35	20	57	49.89
45	J. Riley†.....	Breeds .....	8,960	20	520	26.00	17.23
46	Putnam Coal Co.†.....	Cuba .....	8,640	20	530	26.50	16.30
47	Essex & Fritz Coal Co. No. 2†.....	Galesburg .....	8,400	20	520	26.00	16.15
48	Peter Grant & Son †.....	Peoria .....	8,039	10	394	39.40	20.40
49	Manchester Coal Co.†.....	Petersburg .....	8,000	28	400	14.29	20.00
50	Newsam Bros.†.....	Peoria .....	7,527	21	494	23.52	15.24
51	People Coal and Mining Co.†.....	Petersburg .....	5,554	8	244	30.50	22.76
52	Cusack & Edwards †.....	Edwards .....	4,760	5	328	65.60	14.51
	The district.....	.....	2,753,823	2,999	139,770	46.61	19.70

\* Long wall mines. † Blasted off the solid.

Table 60—Continued.

## FOURTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Deering Coal Co., No. 1, †.....	Westville .....	334,941	465	11,008	33.67	30.43
2	Kelley Coal Co., No. 4, †.....	do .....	301,586	221	7,537	34.11	40.01
3	Kelley Coal Co., No. 3, †.....	do .....	273,592	230	6,800	29.57	40.23
4	Kelley Coal Co., Pawnee, †.....	Grape Creek....	262,694	227	5,939	26.16	44.23
5	Kelley Coal Co., No. 2, †.....	Kelleyville .....	243,002	241	6,050	25.10	40.17
6	Latham Coal Co., No. 1, †.....	Lincoln .....	229,966	200	10,456	52.28	21.99
7	Springfield C. M. Co., No. 6, †.....	Taylorville .....	229,060	183	6,773	37.01	33.82
8	Dering Coal Co., No. 2, †.....	Westville.....	212,225	250	7,672	30.68	27.66
9	Kelley Coal Co. No. 5, †.....	Grape Creek....	209,780	250	5,000	20.00	41.96
10	Kelley Coal Co., Himrod.....	Himrod .....	190,777	275	6,229	22.65	30.64
11	Christian Co. Coal Co.....	Taylorville .....	147,299	88	910	10.34	161.87
12	Penwell C. M. Co., Penwell.....	Pana .....	134,502	170	1,541	9.06	87.28
13	Pana Coal Co., No. 1.....	do .....	118,959	118	492	4.17	241.79
14	Newbent Coal Co., North mine.....	do .....	117,335	137	530	3.87	221.39
15	Citizens Coal M. Co., No. 1, †.....	Lincoln .....	108,335	96	4,465	46.51	24.26
16	Electric Coal Co., Electric, †.....	Danville .....	105,104	90	4,617	51.30	22.76
17	Moweaqua C.M. & Mfg. Co., No. 1...	Moweaqua.....	102,534	114	4,500	39.47	22.79
18	Chicago Colliers Co., No. 10, †.....	Catlin .....	74,162	100	2,605	26.05	23.47
19	Manufacturers & Con. C. Co. No. 1..	Decatur .....	71,479	64	696	10.88	102.70
20	Consolidated Coal Co., Fairmount, †	Fairmount.....	69,056	70	4,106	58.66	16.82
21	Economy Coal Co., Economy. †.....	Danville .....	66,769	45	2,527	56.16	26.42
22	E. S. Gray Coal Co., No. 4, †.....	Oakwood .....	40,000	30	1,400	46.67	23.57
23	Decatur Coal Co., †.....	Niantic.....	36,060	40	1,400	35.00	25.76
24	Lincoln Coal Co., No. 1, †.....	Lincoln .....	33,519	40	1,325	33.13	25.30
25	Colfax Co-op. Coal Co., No. 1, †.....	Colfax .....	24,914	21	1,100	52.38	22.65
26	Ill. Coal M. & Coke Co., No. 1.....	Chenoa .....	21,096	12	900	75.00	23.44
27	Oakwood Coal Co., Oakwood.....	Oakwood.....	20,000	25	1,000	40.00	20.00
28	Salt Fork Coal Co., Missionfield.....	Missionfield....	16,989	.....	125	.....	135.91
29	John O'Connell Coal Co., Blue Bird	Grape Creek....	16,959	60	572	9.53	23.65
30	Blue Mound Coal Co.....	Blue Mound....	13,758	16	400	25.00	34.40
31	Home Coal Co., No. 1, †.....	Mt. Pulaski....	12,468	27	876	32.44	14.23
32	Atherton Coal Co., No. 1, †.....	Muncie .....	10,280	15	394	26.27	26.09
33	Bunting Bros., No. 1, †.....	Grape Creek....	8,359	10	287	28.70	29.13

Table 60—Continued.

FOURTH DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
34	Edinburg Coal Co., No. 1†.....	Edinburg .....	5,087	6	177	29.50	28.46
35	Century Coal Co., No. 1.....	Tower Hill.....	3,394	6	70	11.67	48.49
36	J. A. Runnell, Star No. 2†.....	Tilton.....	3,108	9	72	8.00	43.17
37	Dering Coal Co., No. 4†.....	Westville.....	3,000	15	100	6.67	30.00
38	Dering Coal Co., No. 3†.....	do.....	1,500	15	50	3.33	30.00
39	Geo. W. Haskins, Brookside†.....	Grape Creek.....	989	5	35	7.00	28.26
	The district.....	.....	3,874,587	3,966	110,736	27.78	34.99

†Blasted off the solid.

## FIFTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Chi., Wil. & Ver. Coal Co.....	Thayer.....	390,732	298	4,322	14.50	88.09
2	Madison Coal Co. No. 6.....	Divernon.....	341,082	202	3,273	16.20	104.21
3	Illinois Collieries Co. No. 1.....	Virden.....	340,736	283	4,725	16.70	72.11
4	Superior Coal Co. No. 1.....	Gillespie.....	282,711	153	2,500	16.34	113.08
5	Ill. Collieries Co. No. 8†.....	Virden.....	278,426	230	11,436	49.72	24.35
6	Springfield Coal M. Co. No. 5†.....	Springfield.....	239,920	170	9,498	55.87	25.26
7	Springfield Coal M. Co. No. 2†.....	Riverton.....	236,232	190	10,297	54.19	22.94
8	Victor Coal Co†.....	Pawnee.....	228,896	220	9,734	44.25	23.52
9	Consolidated Coal Co. No. 6.....	Staunton.....	219,826	180	1,232	6.84	178.43
10	Consolidated Coal Co. No. 10.....	Mt. Olive.....	210,837	140	857	6.12	246.02
11	Consolidated Coal Co. No. 8.....	do.....	204,161	155	789	5.09	258.76
12	Superior Coal Co. No. 2.....	Gillespie.....	201,127	117	1,500	12.82	134.08
13	Capital Cooperative Coal Co.†.....	Springfield.....	195,877	162	7,487	46.22	26.16
14	Illinois Collieries Co. No. 2†.....	Auburn.....	173,736	211	7,508	35.57	43.15
15	Madison Coal Co. No. 5.....	Mt. Olive.....	172,764	119	762	6.40	226.72
16	Consolidated C. Co. No. 7.....	Staunton.....	169,657	150	993	6.62	170.58



Table 60—Continued.

## FIFTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
17	Springfield C. M. Co. No. 4†.....	Springfield.....	166,640	132	6,934	52.68	23.96
18	Dering Coal Co. No. 25.....	Paisley.....	161,313	200	2,200	11.00	73.32
19	Royal Colliery.....	Vir den.....	160,563	136	6,422	46.88	25.00
20	Jefferson Coal Co†.....	Springfield.....	146,000	87	6,321	72.66	23.10
21	Hillsboro Coal Co.....	Hillsboro ..	145,838	125	980	7.84	148.81
22	Springfield C. M. Co. No. 1†.....	Riverton.....	142,278	136	6,255	46.07	22.75
23	Springfield C. M. Co. No. 3†.....	Springfield.....	141,209	120	5,849	48.74	24.14
24	Greenridge Min. Co.....	Greenridge.....	140,229	150	5,558	37.05	25.23
25	Woodside Coal Co†.....	Springfield.....	137,000	165	5,780	35.03	23.70
26	Sangamon Coal Co†.....	do.....	136,320	151	6,134	40.62	22.22
27	West End Coal Co†.....	do.....	134,081	121	5,310	43.88	25.24
28	Illinois Collieries Co. No. 5.....	Vir den.....	128,735	170	4,864	28.61	25.44
29	Consolidated Coal Co. No. 14.....	Staunton.....	119,435	40	818	20.45	146.01
30	Spaulding Coal Co. No. 2†.....	Bissell.....	118,604	100	5,028	50.28	23.59
31	Peabody Mining Co†.....	Sherman.....	109,335	60	6,075	101.25	18.00
32	Wabash Coal Co. No. 1†.....	Dawson.....	107,044	95	4,849	51.04	22.08
33	Cantrall Cöoperat. C. Co†.....	Cantrall.....	103,493	87	4,548	52.28	22.76
34	Citizens C. M. Co. "A"†.....	Springfield.....	103,088	100	4,124	41.24	24.98
35	Williamsville C. M. Co†.....	Selbytown.....	96,919	100	4,130	41.30	23.47
36	Auburn and Alton Coal Co.†.....	Auburn.....	89,576	100	3,336	33.36	26.85
37	Barclay C. M. Co†.....	Barclay.....	88,262	92	3,755	40.81	23.51
38	Springfield Cöop. Coal Co†.....	Springfield.....	78,300	125	4,000	32.00	19.58
39	Tuxhorn Coal Co.†.....	Keys.....	77,314	81	3,880	47.90	19.93
40	Clover Leaf C. Co†.....	Coffeen.....	72,398	89	2,663	29.92	27.19
41	Illinois Collieries Co. No. 7†.....	Litchfield.....	71,597	82	2,814	34.32	25.44
42	Citizens Coal Mining Co. "B"†.....	Springfield.....	62,588	90	2,699	29.99	23.19
43	Chicago-Superior Coal Co†.....	do.....	59,149	73	2,688	36.82	22.00
44	Wilmington & Superior Coal Co.†.....	Springfield.....	57,106	94	2,483	26.41	23.00
45	Carlinville Coal Co.....	Carlinville.....	56,850	90	2,345	26.06	24.24
46	Consolidated Coal Co., Gillespie.....	Gillespie.....	37,928	50	297	5.94	127.70
47	Spaulding Coal Co. No. 1†.....	Spaulding.....	36,068	120	1,348	11.23	26.77
48	Illinois Collieries Co. No. 4.....	Vir den.....	34,637	97	1,243	12.81	27.87
49	Black Diamond Coal Co.†.....	Auburn.....	33,233	35	2,237	63.91	14.86
50	Consolidated Coal Co., Hornsby.....	Hornsby.....	28,539	30	210	7.00	135.90

Table 60—Continued.

## FIFTH DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of tons per man.	Number of tons per keg.
51	Illinois Collieries Co. No. 3† .....	Chatham.....	23,396	77	1,075	13.96	21.76
52	Trutter Coal Co† .....	Pleasant Plains.	22,425	28	1,169	41.75	19.18
53	Kortkamp Coal Co.† .....	Hillsboro .....	12,252	10	420	42.00	29.17
54	Consolidated Coal Co. No. 15 .....	Mt. Olive.....	11,069	8	22	2.75	503.13
55	Miller Coal Co.* .....	Raymond.....	4,800	12	17	1.42	282.35
56	Cora Coal Co. † .....	Andrews.....	2,555	7	150	21.43	17.03
	The district.....		7,329,825	6,646	207,961	31.29	35.25

\*Long wall mine. †Blasted off the Solid.

## SIXTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Pittinger & Davis, Nos. 3 and 4* .....	Centralia .....	440,143	319	12,760	40.00	34.49
2	St. Louis & O'Fallon Coal Co. No. 1* .....	E. St. Louis.....	389,306	240	17,651	73.55	22.06
3	Donk Bros. Coal & Coke Co. No. 2..	Collinsville.....	329,135	229	4,261	18.61	77.24
4	Mt. Olive & Staunton Coal Co. No. 1.	Staunton.....	323,371	180	2,044	11.36	158.20
5	Donk Bros. Coal & Coke Co. No. 1* .....	Collinsville.....	315,091	360	16,679	46.33	18.89
6	Donk Bros. Coal & Coke Co. No. 3* .....	Troy .....	290,793	248	8,234	33.20	35.32
7	Muren Coal & Ice Co. No. 2.....	New Baden.....	269,344	148	2,899	19.59	92.91
8	Centralia Min. & Mfg. Co. No. 2* .....	Centralia .....	254,248	181	7,492	41.39	33.94
9	Breeze Trenton Fuel Co. No. 1* .....	Breeze .....	250,912	185	6,460	34.92	38.84
10	Lumaghi Coal Co. No. 2.....	Collinsville.....	225,277	216	2,137	9.89	105.41
11	Madison Coal Co. No. 4 .....	Glen Carbon ..	215,276	157	2,320	14.78	92.79
12	Madison Coal Co. No. 2 .....	do .....	212,840	168	1,677	9.98	126.92
13	Odin Coal Co. No. 1 .....	Odin .....	188,821	148	1,586	10.72	119.06
14	Sandoval Coal & Mining Co. No. 1* .....	Salem.....	161,737	193	5,391	27.93	30.00
15	Muren Coal & Ice Co*.....	Belleville .....	159,944	120	5,274	43.95	30.33
16	Superior Coal Mining Co. No. 1.....	do .....	158,116	90	1,581	17.57	100.01
17	Royal Coal Mining Co. No. 1 .....	do .....	149,550	127	1,800	14.18	83.08

Table 60—Continued.

## SIXTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
18	Consolidated Coal Co. No. 3.....	Collinsville.....	144,527	75	1,019	13.59	141.83
19	Consolidated Coal Co.....	do.....	143,297	75	1,073	14.31	133.55
20	Mt. Olive & Staunton Coal Co. No. 2.....	Staunton.....	142,673	60	1,085	18.08	131.50
21	Trenton Coal Co. No. 1.....	Trenton.....	141,962	140	1,239	8.85	114.58
22	Joseph Taylor & Co*.....	O'Fallon.....	139,196	91	4,403	42.38	31.61
23	Kerns-Doniewald Coal Co. No. 1.....	Worden.....	135,910	130	1,660	12.77	81.87
24	Joseph Taylor Coal Co., Taylor*.....	O'Fallon.....	131,364	81	4,452	54.96	29.51
25	Illinois Collieries*.....	Sorento.....	129,815	140	5,537	39.55	23.45
26	Walnut Hill Coal Co., Avery*.....	Belleville.....	129,798	60	1,200	20.00	108.17
27	Consolidated Coal Co., Breese*.....	Breese.....	115,829	125	2,722	21.78	42.55
28	Edwardsville Coal Co. No. 3*.....	Edwardsville.....	114,966	112	1,532	13.68	75.04
29	Crown Coal & Iron Co. No. 4*.....	Belleville.....	113,370	56	3,266	58.32	34.71
30	De Camp Mining Co. No. 1*.....	Staunton.....	100,972	90	1,125	12.50	89.75
31	Lumaghi Coal Co. No. 3*.....	Collinsville.....	98,641	86	991	11.52	99.54
32	Glendale Coal & Mining Co. No. 1.....	Belleville.....	83,609	68	1,249	18.37	66.94
33	Borders Coal Co. No. 1*.....	Marissa.....	82,300	65	2,520	38.77	32.66
34	Avery Coal M. Co., Oakland.....	Belleville.....	78,718	50	832	16.64	94.61
35	Kolb Coal Co. No. 1*.....	Mascoutah.....	78,060	96	2,600	27.08	30.02
36	Eureka Coal Co. No. 1*.....	Marissa.....	74,249	60	2,714	45.23	31.04
37	Oak Hill Coal Co. No. 1.....	Belleville.....	71,560	33	586	17.76	122.12
38	Marissa Coal & Mining Co.*.....	Marissa.....	69,778	50	2,260	45.20	30.88
39	Summit Coal Co. No. 1*.....	Belleville.....	67,159	40	2,172	54.30	30.92
40	Consolidated Coal Co., Green Mt.....	do.....	65,884	30	481	16.03	136.97
41	Valley Coal & M. Co., Valley.....	Mascoutah.....	65,400	56	1,870	33.39	34.97
42	Joseph Taylor, St. Ellen*.....	O'Fallon.....	65,167	52	2,398	46.02	27.23
43	Consolidated Coal Co., Trenton*.....	Trenton.....	63,460	60	424	7.07	149.67
44	Mo. & Illinois C. Co., Rentchler*.....	Belleville.....	57,761	65	1,626	25.02	35.52
45	Johnson Coal Co. "O K"*.....	Marissa.....	56,967	40	1,813	45.33	31.42
46	Kolb Coal Co., Vinegar Hill*.....	Mascoutah.....	55,751	70	1,860	26.57	29.97
47	Hippard Coal Co. No. 1.....	Belleville.....	53,323	50	500	10.00	106.65
48	Henrietta Coal Co. No. 1*.....	Edwardsville.....	52,471	35	636	18.17	82.50
49	Tirre Coal & Mining Co. No. 1*.....	Lenzburg.....	50,863	45	1,368	30.40	37.18
50	Avery Coal & M. Co., Randle*.....	Freeburg.....	49,993	45	1,501	33.36	33

Table 60—Continued.

## SIXTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
51	Hippard C. Co., Walnut Valley* .....	Belleville .....	49,219	60	1,200	20.00	41.02
52	Germantown Coal Co. No. 1* .....	Germantown .....	46,881	60	2,459	40.98	19.07
53	Suburban Coal Co.* .....	Belleville .....	44,254	80	1,800	22.50	24.59
54	Pittsburg Mining Co.* .....	do .....	43,750	30	1,000	33.33	43.75
55	Lenz Coal & Mining Co. No. 2 .....	do .....	43,403	55	1,497	27.22	28.99
56	Sunlight Coal Co.* .....	Freeburg .....	42,072	28	1,000	35.71	42.07
57	Mo. & Ill. Coal Co., Wilderman* .....	Belleville .....	39,258	40	1,301	32.53	30.18
58	Fullerton C. Co., Skellet* .....	do .....	36,800	40	923	23.08	39.87
59	New Staunton Coal Co.* .....	Staunton .....	35,155	50	530	10.60	66.33
60	Marissa C. & M. Co., Oakridge* .....	Marissa .....	34,816	55	1,280	23.27	27.20
61	Lebanon C. & M. Assn. ....	O'Fallon .....	34,040	84	680	8.10	50.06
62	Lake Superior C. Co., Branch* .....	Belleville .....	33,406	30	1,305	43.50	25.60
63	Consolidated Coal Co.* .....	Troy .....	32,262	20	979	48.95	32.95
64	Highland Coal Co. No. 1* .....	Belleville .....	32,250	32	978	30.56	32.98
65	Mo. & Ill. Coal Co., St. Clair* .....	do .....	29,148	30	965	32.17	30.21
66	Borders Coal Co. No. 2* .....	Marissa .....	28,537	20	1,030	51.50	27.71
67	O'Fallon C. M. Co. ....	O'Fallon .....	28,015	32	584	18.25	47.97
68	Consolidated C. Co., Gartside .....	Belleville .....	27,805	30	330	11.00	84.26
69	Enterprise M. Co., Rentchler* .....	Rentchler .....	26,957	21	903	43.00	29.85
70	Chas. Hortman* .....	Belleville .....	26,502	20	737	36.85	35.96
71	Sandoval C. M. Co., No. 2* .....	Salem .....	25,810	17	307	18.06	84.07
72	Herman Pfuhl, Richland* .....	Belleville .....	25,096	33	878	26.61	28.58
73	Breese Trenton M. Co., Trenton .....	Trenton .....	23,573	35	204	5.83	115.55
74	Glendale C. & M. Co., No. 2* .....	Belleville .....	21,704	23	631	27.43	34.40
75	Little Oak C. Co.* .....	do .....	21,574	40	800	20.00	26.97
76	Consolidated C. Co., Schureman .....	do .....	20,381	35	98	2.66	219.15
77	Avery C. M. Co., Advance* .....	Marissa .....	20,207	25	754	30.16	26.80
78	Interstate C. & M. Co.* .....	Worden .....	18,485	36	450	12.50	41.03
79	Lebanon C. M. Ass'n, Carbon* .....	O'Fallon .....	18,172	69	610	8.84	29.79
80	Fred Murphy* .....	Belleville .....	18,000	12	600	50.00	30.00
81	St. Louis & O'Fallon, No. 2 .....	E. St. Louis .....	16,976	20	680	34.00	24.96
82	Breese Trenton C. Co., No. 3* .....	Breese .....	16,438	20	510	25.50	32.23
83	Humboldt C. & M. Co.* .....	Belleville .....	13,776	20	432	21.60	31.89

Table 60—Continued.

SIXTH DISTRICT—*Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
84	Beatty C. Co., Shiloh.....	Mascoutah.....	11,060	15	192	12.80	58.07
85	Kinmundy C. Co., No. 1*.....	Kinmundy.....	10,418	21	221	10.52	47.14
86	T. M. Meek C. Co., Meek*.....	Marissa.....	7,860	6	250	41.67	31.44
87	Belleville & O'Fallon C. M. Co.*.....	Belleville.....	6,660	35	213	6.09	31.27
88	Salem C. Co., No. 1*.....	Salem... ..	5,173	7	117	16.71	44.21
89	Prairie C. Co.*.....	Belleville.....	5,004	10	156	15.60	32.08
90	Lenz C. & M. Co., No. 1*.....	do.....	4,650	35	103	2.94	45.15
91	Consolidated C. Co., No. 17*.....	Collinsville.....	4,607	12	120	10.00	38.39
92	Kolb C. Co., Fairbanks*.....	Mascoutah.....	3,600	6	120	20.00	30.00
	The District.....	.....	8,392,443	6,989	190,877	27.31	43.97

\*Blasted off the solid.

## SEVENTH DISTRICT.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
1	Big Muddy Coal & Iron Co., No. 7*..	Herrin .....	447,287	260	13,826	53.18	32.35
2	Chicago & Carterville C. Co., No. 1*..	do.....	402,088	237	14,629	61.73	27.49
3	Sunnyside C. Co., No. 1*.....	do.....	371,225	227	12,742	56.13	29.13
4	Peabody C. Co., No. 3.....	Marion.....	319,548	143	6,419	44.89	49.78
5	Willis C. M. Co. No. 1 .....	Willisville .....	241,474	220	6,659	30.27	36.24
6	St. Louis & Big Muddy C. Co., Dawes*	Dewmaine.....	239,643	225	8,524	37.88	28.11
7	White Walnut C. Co.* .....	Pinckneyville ..	208,873	170	8,488	46.93	24.37
8	Muddy Valley Mining & Mfg. Co.*..	Hallidayboro...	198,211	160	6,178	38.61	32.08
9	Chicago-Herrin C. Co.*.....	Herrin .....	186,748	125	5,946	47.57	31.41
10	Western C. M. Co., Bush*.....	Bush .....	174,662	218	6,653	30.52	26.26
11	Chi. & Big Muddy C. & C. Co., No. 1*	Marion.....	166,262	140	6,169	44.06	26.91
12	Peabody Coal Co. No. 2.....	Marion.....	164,214	118	3,671	31.11	44.73
13	Carterville District Coal Co. No. 6....	do.....	141,067	85	1,980	23.30	71.25
14	Willis Coal & Mining Co. No. 6.....	Percy .....	131,517	100	4,216	42.16	31.19

Table 60—Continued.

## SEVENTH DISTRICT—Continued.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
15	Mo. & Ill. Coal Co. No. 4 *	Willisville .....	127,499	105	4,199	39.99	30.36
16	Davenport Coal Co. *	Ledford .....	113,682	60	3,662	61.03	31.04
17	Williamson Co. Coal Co. *	Johnson City ..	109,562	180	3,542	22.14	30.93
18	Big Muddy Coal & Iron Co. No. 8	Clifford .....	107,861	61	1,700	27.87	63.45
19	Johnson City & B. M. C. & M. Co. *	Johnson City ..	103,027	95	4,173	43.93	24.69
20	Carterville Coal Co. "A"	Carterville .....	100,131	87	2,593	33.94	34.01
21	Gas Coal Co., White Ash *	Harrisburg .....	95,000	80	3,300	41.23	28.79
22	Queen City Mining Co. ....	Duquoin .....	88,800	100	1,800	18.00	49.33
23	Carterville Coal Co. "B"	Carterville .....	86,362	45	2,549	56.64	33.88
24	Donally-Koenneck Coal Co., D. R.	do .....	84,564	90	2,770	30.78	30.53
25	Carterville Coal Co. "C"	do .....	81,774	60	2,414	40.23	33.87
26	New Virginia Coal Co. ....	Johnson City ..	80,000	63	3,500	53.85	22.86
27	Moffat Coal Co., Moffat *	Sparta .....	79,678	70	2,976	42.51	26.77
28	New Ohio Washed Coal Co. No. 1	Carterville .....	76,769	85	2,556	30.07	30.03
29	Manf. Fuel Co., Jupiter No. 1 *	Duquoin .....	74,969	110	2,268	20.62	33.06
30	Robert Dick Coal Co. ....	Cambria .....	68,967	75	2,577	34.36	26.76
31	Gallatin Coal & Coke Co. *	Equality .....	67,857	81	2,473	30.53	27.44
32	Coulterville Mining Co. ....	Herrin .....	67,647	75	2,452	32.69	27.59
33	Lake Superior Coal Co., Pope mine*	Duquoin .....	67,605	65	2,700	41.54	25.04
34	Gartside Coal Co. No. 4. ....	Murphysboro...	64,448	50	560	11.20	115.09
35	Carterville & B. M. Coal Co. No. 1	Cambria .....	62,959	60	1,524	25.40	41.31
36	Clifton Coal Co., Clifton *	Ledford .....	59,535	50	2,400	48.00	24.81
37	Inland Coal & Washing Co. No. 1 *	DeSoto .....	56,000	75	1,500	20.00	37.33
38	Greenwood-Davis Coal Co. ....	Duquoin .....	54,850	80	1,170	14.63	46.88
39	Galatin Coal & Coke Co. *	Nashville .....	54,315	42	1,761	41.93	30.84
40	Crystal Coal Co. No. 1 *	Tilden .....	50,882	69	2,039	29.55	24.95
41	Gus Blair B. M. Coal Co. No. 1	Murphysboro...	50,310	50	275	5.50	18.29
42	Coulterville Mining Co. No. 1 *	Coulterville .....	49,915	40	1,740	43.50	28.69
43	Manf. Fuel Co., Jupiter No. 2 *	Duquoin .....	46,269	74	1,845	24.98	25.08
44	Tilden Coal Co. ....	Tilden .....	44,955	60	1,585	26.42	28.36
45	Gartside Coal Co. No. 3 *	Murphysboro...	44,742	48	405	8.44	110.47
46	Equitable Coal Co., Majestic. ....	Duquoin .....	41,402	85	1,776	20.89	25.00

Table 60—Concluded.

## SEVENTH DISTRICT—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address and location of mine.	Output—tons.	Number of miners.	Number of kegs of powder used for blasting coal.	Number of kegs per man.	Number of tons per keg.
47	Watson Coal Co.....	Herrin .....	42,000	20	1,000	50.00	42.00
48	West Muddy Coal Co.*.....	Coulterville.....	41,476	70	1,250	17.86	33.18
49	Chl.-Marion Coal Co., White Ash...	Marion.....	41,265	50	581	11.62	71.02
50	Carterville-Herrin C. Co. No. 1*.....	Herrin .....	41,110	38	1,855	48.55	22.16
51	Illinois Fuel Co. No. 4.....	Sparta.....	40,845	30	546	18.20	74.81
52	J. A. Greim Consol.*.....	Coulterville.....	39,617	33	800	24.24	49.52
53	Bailey Bros. Coal Co. No. 3*.....	Sunfield.....	36,991	45	1,234	27.42	29.98
54	Soper & Co., Bernard*.....	Cutler.....	36,285	40	1,185	29.63	30.62
55	Easton Fuel Co., Black Diamond*....	Sunfield.....	33,944	47	1,128	24.00	30.09
56	Illinois Fuel Co., No. 3*.....	Sparta.....	32,422	35	1,040	29.71	31.18
57	Galatia Coal Co.*.....	Galatia.....	31,000	35	1,600	45.43	19.38
58	Chicago & Carterville Coal Co.*.....	DeSoto .....	30,000	35	1,000	28.57	30.00
59	Little Muddy Coal Co.*.....	Tamaroa.....	28,248	54	1,085	20.09	26.04
60	New Moon Mining Co., New Moon*....	Duquoin.....	24,613	32	643	20.09	38.28
61	Morris Bros., Perry Co.*.....	do.....	24,512	30	650	21.67	37.71
62	Adam Kuhn*.....	Duboise .....	24,000	50	630	12.60	38.10
63	Boyd Coal & Coke Co., No. 4*.....	Sparta.....	22,000	35	1,600	45.43	13.75
64	Eldorado Coal Co., No. 1*.....	Eldorado.. ....	20,078	26	1,036	39.85	19.38
65	St. Louis-Carterville Coal Co.*.....	Herrin .....	19,812	29	836	28.83	23.70
66	Forester Coal & Coke Co.....	Duquoin.....	18,884	40	630	15.75	29.98
67	Duquoin-Pitts. Coal & Coke Co.*.....	do.....	17,992	87	478	5.49	37.64
68	Manufac. Fuel Co., Jupiter, No. 3*....	do.....	14,983	62	616	9.94	24.32
69	Colp Coal Co., Colp mine*.....	Carterville .....	14,962	36	531	14.75	28.21
70	Strait Coal Co.*.....	Pinckneyville...	9,718	12	334	27.83	29.10
71	Benton Coal Co., No. 1.....	Benton.....	7,000	9	135	15.00	51.85
72	Eureka Coal Co., No. 2*.....	Tilden .....	6,961	10	349	34.90	20.00
73	M. Hampton*.....	Carterville .....	6,268	2	225	112.50	27.86
74	Brown Coal Co.*.....	Equality .....	5,672	18	315	17.50	18.01
75	Manufac. Fuel Co., Jupiter, No. 5*....	St. Johns.....	4,221	10	97	9.70	43.52
76	Schmidt Gall Coal Co.....	Murphysboro ..	4,000	8	50	6.25	80.00
	The district .....	.....	6,479,404	5,808	202,703	34.90	31.97

\* Blasted off the solid.

The recapitulation of the foregoing table follows:

TABLE 61—*Recapitulation of Table 60—Shipping Mines in Which Powder is Used for Blasting Coal.*

DISTRICT.	Number of mines.	Total tons.	Number of men.	Number of kegs of powder.	Number of kegs per man.	Number of tons per keg.
First.....	30	2,384,716	4,015	28,120	7.00	84.80
Second.....	19	1,079,313	1,564	35,641	22.79	30.28
Third.....	52	2,753,823	2,999	139,770	46.61	19.70
Fourth.....	39	3,874,587	3,986	110,736	27.78	34.99
Fifth.....	56	7,329,825	6,646	207,961	31.29	35.25
Sixth.....	92	8,392,443	6,989	190,877	27.31	43.97
Seventh.....	76	6,479,404	5,808	202,703	34.90	31.97
The State.....	364	32,294,111	32,007	915,808	28.61	35.26

The foregoing gives the record concerning 364 of the shipping mines using powder for blasting down the coal. The number of men considered here are only those reported as miners.

For the State the number of kegs per man was 28.61, and the number of tons produced was 35.26 for each keg consumed. A similar statement is presented giving, by districts, an account of all the powder used in all the mines of the State, together with the number of miners, the kegs used and the tons of coal produced; also the number of kegs per man and the number of tons per keg.

TABLE 62—*Distribution of Powder Used in all Mines, by Districts.*

DISTRICT.	POWDER USED IN BLASTING COAL.					
	Mines.	Men.	Kegs.	Tons of coal.	Kegs per man.	Tons per keg.
First.....	39	4,100	29,803	2,431,911	7.27	81.60
Second.....	82	1,882	43,055	1,236,373	22.88	28.72
Third.....	77	3,173	142,231	2,813,038	44.83	19.78
Fourth.....	83	4,214	115,581	4,026,640	27.43	34.84
Fifth.....	71	6,764	210,635	7,402,253	31.14	35.14
Sixth.....	104	7,069	192,589	8,451,371	27.24	43.88
Seventh.....	100	5,913	204,606	6,536,764	34.60	31.95
The State.....	556	33,115	938,500	32,898,350	28.34	35.05
1904.....	591	29,924	923,418	32,336,448	30.86	35.02
1903.....	639	40,267	806,311	30,937,409	20.02	38.37
1902.....	657	36,559	637,448	25,556,523	17.4	40.01
1901.....	585	34,570	477,612	16,283,180	13.82	34.09
1900.....	621	29,667	490,713	19,979,219	16.5	40.71



For the purpose of comparison the totals of the State are reproduced and added to the table for the five preceding years.

### FATAL ACCIDENTS IN MINES.

There have been 199 fatal accidents reported by the inspectors for the year; this is forty-two more than reported for last year. Omitting the fifty men killed in the explosion at the Zeigler mine, the number killed would have been 149 as against 157 reported last year. The record, however, for the year is that one man was killed out of every 299 employed underground. Considered by districts it is found that the number killed is less than last year in the first, third, fifth and sixth, the other three districts showing an increase. The seventh district shows seventy-nine men killed; this is the same number of men losing their lives, as was reported from the first district for the year 1883, when sixty-nine men met death by drowning in one mine at Braidwood.

The table following is the record for the year.

TABLE 63—*Fatal Casualties by Districts for the Year Ended June 30, 1905.*

DISTRICT.	Total number killed.	WHERE EMPLOY'D		EMPLOYES.			Total number of tons of coal mined.	Number of employes to each death.	Rate per 1,000.	Number of tons coal mined to each death.
		Under ground.	Above ground.	Under ground.	Above ground.	Total.				
First.....	9	9	.....	7,520	637	8,157	3,396,807	906	1.1	377,423
Second.....	14	14	.....	7,125	696	7,761	3,212,728	554	1.8	229,480
Third.....	9	9	.....	4,839	558	5,397	3,107,379	600	1.7	345,264
Fourth.....	40	40	.....	6,727	714	7,441	4,477,682	186	5.2	111,941
Fifth.....	23	23	.....	9,186	989	10,175	7,435,952	442	2.3	324,172
Sixth.....	25	25	.....	9,520	1,116	10,636	8,506,929	425	2.4	340,277
Seventh.....	79	77	2	8,519	1,144	9,663	7,045,947	122	8.4	89,189
The State.....	199	197	2	53,436	5,794	59,230	37,183,374	298	3.4	186,851

The death rate this year, to 1,000 persons employed, is 3.4; this is the highest rate reached since the year 1883, when the exceptional disaster occurred at Braidwood. The number of employes to each man killed for the year is 298, which is the lowest number obtained for the past twenty-two years.

The record for twenty-three years is presented in the table following:

TABLE 64—*Fatal Accidents for Twenty-three Years.*

YEAR.	Number killed.	Total number of employes.	Total tons of coal mined.	Number of employes to each life lost.	Rate per 1,000.	Number of tons of coal produced to each life lost.
1883.....	134	23,939	12,123,457	179.6	5.6	90,474
1884.....	46	25,575	12,206,075	566	1.8	265,393
1885.....	39	25,436	11,834,459	652.4	1.5	303,448
1886.....	52	25,846	11,175,241	497	2.0	214,909
1887.....	41	26,804	12,423,066	654	1.5	303,002
1888.....	55	29,410	14,328,181	534.7	1.9	260,512
1889.....	42	30,076	14,017,298	716.1	1.4	333,745
1890.....	53	28,574	15,274,727	539.1	1.9	286,316
1891.....	60	32,951	15,660,698	549	1.8	261,012
1892.....	57	33,632	17,062,276	580	1.7	313,372
1893.....	69	35,390	19,949,564	513	1.9	289,124
1894.....	72	32,635	17,113,576	453.3	2.2	237,698
1895.....	75	31,962	17,735,864	426.2	2.3	236,478
1896.....	77	33,054	19,786,626	429.2	2.3	256,969
1897.....	69	33,788	20,072,756	489.7	2.0	290,610
1898.....	75	35,026	18,599,299	467	2.1	247,991
1899.....	84	36,991	23,434,445	440	2.3	278,962
1900.....	94	39,384	25,153,929	419	2.4	267,595
1901.....	99	44,143	26,635,319	445.9	2.2	269,044
1902.....	99	46,005	30,021,300	464.7	2.2	303,245
1903.....	156	49,814	34,955,400	319.3	3.1	224,073
1904.....	157	54,774	37,077,897	348.9	2.87	236,165
1905.....	199	59,230	37,183,374	298	3.4	186,851
Averages for 23 years	83	35,410	20,166,377	427.7	2.34	243,607

Here is shown that, during the period of twenty-three years, 1,904 persons have lost their lives at the coal mines of the State; the average number of deaths per annum is eighty-three and the rate 2.34 per 1,000 employes. The average number killed, also the average number of miners and others employed at the mines, with the average

tons produced, and the proportions as to employés and tons, also the ratio of deaths to each 1,000 employed at the mines, has been compiled and is presented in the table following:

TABLE 65—*Fatal Accidents, Averages and Proportions for Nine Years, 1883-1891, and for the Succeeding Fourteen Years, 1892-1905.*

NUMBER OF YEARS.	AVERAGES.			PROPORTION OF—		Ratio per 1,000.
	Killed.	Employés.	Tons mined.	Employés to each life lost.	Tons to each life lost.	
9 years .....	58	27,623	13,227,245	476.3	208,899	2.1
10 years .....	58	28,224	13,610,748	487.5	235,073	2.1
11 years .....	59	28,876	14,187,004	490.2	240,829	2.0
12 years .....	60	29,189	14,430,885	486.5	240,515	2.1
13 years .....	61	29,402	14,685,114	481.	240,134	2.1
14 years .....	62	29,663	15,049,508	464.8	241,621	2.1
15 years .....	63	29,938	15,384,391	479.	245,235	2.1
16 years .....	64	30,256	15,585,323	476.5	245,438	2.1
17 years .....	65	30,652	16,047,036	473.7	248,090	2.1
18 years .....	66	31,137	16,552,974	469.4	249,568	2.1
19 years .....	68	31,822	17,063,624	467.6	251,085	2.1
20 years .....	70	32,531	17,730,508	467.4	254,748	2.1
21 years .....	74	33,354	18,550,741	452.5	251,657	2.2
22 years .....	78	34,328	19,392,884	442.9	250,231	2.3
23 years .....	83	35,410	20,166,384	427.8	243,607	2.3

The first line in the table gives the averages, proportions and rate for nine years, and is followed by the succeeding years, covering in all a period of twenty-three years.

Referring to the past fourteen years, it is found that the average number of killed has increased from fifty-eight to eighty-three, or 43.1 per cent; the average number of employés has increased from 27,623 to 35,410, or 28.19 per cent; the tons of output from 13,227,245 to 20,166,384, or 52.46 per cent.

The average number of employés to each life lost is forty-eight less than shown fourteen years ago; while the number of tons is less than appears for the past nine years.

The causes resulting in the death of the 199 men during the year is set forth in the following table by districts:

TABLE 66- *Fatal Accidents by Causes for 1905, by Districts, With Totals and Averages for 16 Years.*

CAUSES.	Totals.	DISTRICTS.							Per- cent- ages.
		1st.	2nd.	3d.	4th.	5th.	6th.	7th.	
After damp.....	3							3	1.51
Asphyxiation .....	1			1					0.50
Blown out shots.....	7					2		5	3.52
Cages .....	5		2	1				2	2.52
Electrocution.....	1			1					.50
Explosion gasoline torch.....	1							1	.50
Falling coal and rock.....	80	6	6	1	25	12	19	11	40.20
Falling down shaft.....	4	1			1	1	1		2.00
Falling bucket.....	1		1						.50
Falling with bucket.....	1						1		.50
Falling over prop.....	1					1			.50
Falling with cage .....	1		1						.50
Falling timber.....	1							1	.50
Flying coal.....	9	1	1		4	2		1	4.52
Gas explosion.....	48							48	24.12
Hauling rope.....	1		1						.50
Pit cars.....	10	1	1		3	2	3		5.04
Powder explosion .....	8		1	2	1	1		3	4.03
Premature blasts .....	2			1		1			1.00
Railroad cars .....	1							1	.50
Shot explosions.....	6			2			1	3	3.02
Suffocation.....	7				6	1			3.52
Totals, 1905.....	199	9	14	9	40	23	25	79	100.00
Totals, 1904.....	157	13	7	16	29	27	35	30	.....
Totals, 1903.....	156	24	11	9	30	26	32	24	.....
Totals, 1902.....	99	15	7	6	20	17	19	15	.....
Totals, 1901.....	99	11	9	4	21	17	22	15	.....
Totals, 1900.....	94	18	7	5	24	22	11	7	.....
Totals, 1899.....	84	7	12	4	11	14	22	14	.....
Totals, 1898.....	75	12	10	4	19	5	8	17	.....
Totals, 1897.....	69	11	9	4	10	19	11	5	.....
Totals, 1896.....	77	18	11	4	14	16	4	10	.....
Totals, 1895.....	75	16	12	16	15	16			.....

Table 66—Concluded.

CAUSES.	Totals.	DISTRICTS.							Per- cent- ages.
		1st.	2nd.	3d.	4th.	5th.	6th.	7th.	
Totals, 1894.....	72	19	9	10	19	15	.....	.....	.....
Totals, 1895.....	69	17	5	12	10	25	.....	.....	.....
Totals, 1892.....	57	10	1	11	24	11	.....	.....	.....
Totals, 1891.....	60	15	4	9	12	20	.....	.....	.....
Totals, 1890.....	53	16	5	10	11	11	.....	.....	.....
Aggregates, 16 and 10 years....	1,495	231	133	133	309	284	189	216	.....
Averages 16 and 10 years.....	93.44	14.44	8.31	8.31	19.31	17.75	18.9	21.6	.....
Percentages 10 years, 1896-1905.....	.....	12.44	8.75	5.86	19.66	16.78	17.04	19.47	100.00

The different causes number twenty-two, and are represented in the several districts. Falling coal and rock accounts for 40 per cent. of the total number of deaths. Following the list of causes the total number of fatalities in each district is shown for sixteen years; the final line in the table of years gives the percentages for each district for the past ten years; the fourth, fifth, sixth and seventh districts are answerable for seventy-three per cent of the total number during that period.

The numerous causes reported from year to year, resulting in the killing of men working in and about the mines, have, for several years, been shown in an abridged form, under eight headings. These are continued in these reports every year, and are here presented for eighteen years.

TABLE 67—Fatal Accidents for Eighteen Years, by Leading Causes.

YEARS.	LEADING CAUSES.								Total.
	Blasts and ex- plosions.	Cages.	Falling coal and rock.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railroad cars.	Other causes.	
1888.....	9	2	33	4	.....	6	1	.....	55
1889.....	3	4	26	2	.....	5	.....	2	42
1890.....	4	4	36	.....	5	3	1	.....	53
1891.....	11	4	33	1	4	2	2	3	60
1892.....	4	4	28	8	3	6	1	3	57
1893.....	6	4	48	3	2	2	1	3	69

Table 67—Concluded.

YEAR.	LEADING CAUSES.								Total.
	Blasts and explosions.	Cages.	Falling coal and rock.	Falling down shaft.	Fire, black and white damp.	Pit cars.	Railroad cars.	Other causes.	
1894.....	8	8	43	5	.....	6	2	.....	72
1895.....	12	4	38	4	5	5	1	6	75
1896.....	9	5	41	6	2	7	1	6	77
1897.....	11	.....	46	5	2	1	1	3	69
1898.....	11	2	43	4	7	2	1	5	75
1899.....	4	5	51	4	4	6	1	9	84
1900.....	17	4	51	1	1	11	2	7	94
1901.....	3	1	57	1	1	11	.....	25	99
1902.....	13	2	55	7	.....	15	2	5	99
1903.....	47	6	77	2	.....	18	.....	6	156
1904.....	44	4	65	8	.....	21	2	13	157
1905.....	82	6	80	4	3	10	1	13	199
Totals.....	298	69	851	69	39	137	20	109	1,592
Percentages, 18 years..	18.72	4.33	54.46	4.33	2.45	8.61	1.26	6.84	100.00

The first column of the table, comprehends the number of deaths from all blasts and explosions; this is intended and does include all accidents resulting from the handling and burning of powder or the igniting of explosive gases, also coal, rock or clod flying or thrown in consequence of any explosion by blasting. During the eighteen years it is found that 298 men have been killed, resulting from accidents by these causes, which is an average of seventeen for each year.

Considering the past eight years, 1898-1905, covering the period in these reports, within which gross-ton mining has prevailed throughout the State, it is shown that 221 deaths have occurred resulting from these sources, this is an average of twenty-eight for each of the eight years.

The deaths resulting from falling coal and rock in the mines continues to show the preponderance of deaths brought to the working miner. The total number from these causes, for the eight years, was 479, or an average of sixty for each year.

A classification has been made of the fatal casualties by causes for the past year, also by districts, with the totals for the four previous

years. The number killed by explosions of all kinds are designated under five separate headings, the primary causes being from the explosion of powder or the igniting of gas.

For the present year eighty-two deaths occurred resulting from these explosions. Omitting from this number the forty-seven men killed by the unusual disaster at the Zeigler mine, we have thirty-five killed from these causes, which is less than for either of the two preceding years.

The record is shown in the following table:

TABLE 68—*Fatal Accidents Caused Primarily by Explosions, Falling Coal and from Other Causes, by Districts, for the Year 1905 and for the Four Preceding Years.*

DISTRICT AND YEARS.	CAUSES.					Total from blasts, etc.	CAUSES.		Total all causes.
	Blast ex- plosions.	Blast pre- mature.	Blown out shots.	Powder explosions.	Flying coal.		Falling coal rock, etc.	Other causes.	
First .....					1	1	6	2	9
Second .....				1	1	2	6	6	14
Third .....	3	1		2		6	1	2	9
Fourth .....				1	4	5	25	10	40
Fifth .....	†1	1	2	1	2	7	12	4	23
Sixth .....	1					1	19	5	25
Seventh .....	‡51		5	3	1	60	11	8	79
1905 .....	56	2	7	8	9	82	80	37	199
1904 .....	3	16	2	14	9	44	65	48	157
1903 .....	3	10	20	3	3	39	76	41	156
1902 .....	2	9		3	3	17	56	27	99
1901 .....	1	8		3	8	20	57	22	99
Five years .....	65	45	29	31	32	202	338	175	710

† Suffocated going back to examine shot.

‡ Forty-seven men killed by gas explosion, Zeigler mine.

The same division is shown by districts, and for five years, with percentages by causes, in the following table:

TABLE 69—*Fatal Accidents for Five Years, 1891-1905, by Districts with Percentages.*

DISTRICT.	CAUSES.						CAUSES.			
	Blast explosions.	Blasts premature.	Blown out shots.	Powder explosions.	Flying coal.	Total from explosions.	Falling coal, rock, slate, etc.	All other causes.	Total.	Total all causes.
First.....	.....	1	.....	2	2	5	47	20	67	72
Second.....	1	2	.....	1	5	9	23	16	39	48
Third.....	5	4	6	5	.....	20	17	7	24	44
Fourth.....	.....	4	.....	3	10	17	82	41	123	140
Fifth.....	1	24	10	3	.....	38	39	31	70	108
Sixth.....	2	7	8	3	8	28	79	28	107	135
Seventh.....	56	3	5	14	7	85	46	32	78	163
Total.....	65	45	29	31	32	202	333	175	508	710
Percentages.....	32.18	22.28	14.35	15.36	15.84	100.00	65.55	34.45	100.00	.....

A further account of the fatal accidents is shown as follows:

TABLE 70—*Fatal Accidents for Five Years, 1901-1905—By Causes and Districts.*

CAUSES.	DISTRICTS.							Total.
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	
Blast explosions.....	.....	1	5	.....	1	2	56	65
Blast premature.....	1	2	4	4	24	7	3	45
Blown out shots.....	.....	.....	6	.....	10	8	5	29
Powder explosions.....	2	1	5	3	3	3	14	31
Flying coal.....	2	5	.....	10	.....	8	7	32
Total.....	5	9	20	17	38	28	85	202
Falling coal, rock, slate, etc.....	47	23	17	82	39	79	46	333
All other causes.....	20	16	7	41	31	28	32	175
Total.....	72	48	44	140	108	135	163	710
Percentages by districts.....	10.14	6.76	6.20	19.72	15.21	19.01	22.96	100.00
Percentages by divisions of State, where coal is chiefly blasted from the solid.....	16.90		53.10				100.00	



This is a division of the causes of fatalities in the mines, shown by districts for five years. Observing the line of totals from explosions, the range is from five in the first district to eighty-five in the seventh; in the totals for all causes, the range is from forty-four in the third district to 163 in the seventh. The total number of men killed during the five years was 710, of this number 202 or 28.45 per cent lost their lives by explosions or resultant causes; 333 or 46.90 per cent from falling coal, rock, slate or clod, in the mines, while 175 or 24.65 per cent met their death from all other causes.

The fatal and non-fatal accidents for the year have been brought together and classified, as shown for fatal accidents in the preceding tables. The number of both classes of accidents for the year was 734, of these 199 or 27.11 per cent were fatal and 535 or 72.89 per cent non-fatal. It is shown in the table that a total of 138 are chargeable to explosions of all kinds; eighty-two or 59.42 per cent were fatal, and fifty-six or 40.58 per cent non-fatal.

The following table presents the number and causes in detail:

TABLE 71—*Fatal and Non-Fatal Accidents for the Year caused by Explosions, Falling Coal and Rock, and by All Other Causes.*

CAUSES.	CASUALTIES.		PERCENTAGES OF—		All casual- ties.	Per- cent- ages.
	Fatal.	Non-fatal.	Fatal.	Non-fatal.		
Blast explosions .....	56	19	68.30	33.93	75	54.35
Blasts, premature .....	2	4	2.44	7.14	6	4.35
Blown out shots .....	7	5	8.53	8.93	12	8.69
Powder explosions .....	8	15	9.75	26.79	23	16.67
Flying coal .....	9	13	10.98	23.21	22	15.94
Totals .....	82	56	100.00	100.00	138	100.00
Falling coal and rock .....	80	271	68.38	56.58	351	58.89
Other causes .....	37	208	31.62	43.42	245	41.11
Totals .....	117	479	100.00	100.00	596	100.00
Grand total .....	199	535	27.11	72.89	734	100.00

We reproduce here two tables of fatal accidents, published in the Engineering and Mining Journal, New York, in its issue of Dec. 2, 1905, for the United States and Canada, prepared by Frederick L. Hoffman, covering ten years 1895-1904.

The first of these tables, No. 72, gives the actual number of persons killed in coal mining for each of the several years by states, while the second table, No. 73, presents the number killed per 1,000 persons employed.

TABLE 72—*Number of Persons Killed by Accidents in Coal Mines of the United States and Canada—1895-1904.*

	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	10 years
Alabama.....	38	28	38	45	40	37	41	50	57	84	458
Colorado.....	23	68	35	24	41	29	55	78	40	49	477
Illinois.....	75	77	69	75	84	94	99	99	157	156	985
Indiana.....	23	28	16	22	16	18	24	24	55	34	260
Indian Ter.....	6	12	22	17	25	40	44	60	33	30	289
Iowa.....	20	22	21	26	20	29	26	55	21	31	271
Kansas.....	10	12	6	17	16	22	26	27	36	16	188
Kentucky.....	8	6	12	6	7	17	21	19	25	19	140
Maryland.....	9	6	5	4	5	7	12	11	13	*	72
Missouri.....	13	16	8	9	14	10	15	10	17	11	123
New Mexico.....	28	7	7	7	15	15	9	17	17	15	137
Ohio.....	52	41	40	52	57	68	72	81	114	118	695
Pennsylvania (anthr.).....	421	502	423	411	461	411	513	300	518	595	4,555
Pennsylvania (bit.).....	156	180	150	199	258	265	301	456	402	536	2,903
Tennessee.....	37	22	10	19	20	10	53	226	26	28	451
Utah.....	1	3	3	3	—	209	10	8	7	9	253
Washington.....	35	8	7	9	45	33	27	34	25	31	254
West Virginia.....	83	65	62	90	89	141	130	120	159	140	1,079
British Columbia.....	10	9	6	7	11	17	102	139	42	37	380
Nova Scotia.....	9	8	7	7	19	21	14	19	31	19	154
Total deaths.....	1,067	1,120	947	1,049	1,243	1,493	1,594	1,828	1,794	1,999	14,124

\* No report.

TABLE 73—*Fatal Accidents in Coal Mining in the United States and Canada—1895-1904.*

	NUMBER OF PERSONS KILLED PER 1,000 EMPLOYED.										
	1895.	1896.	1897.	1898.	1899.	1900.	1901.	1902.	1903.	1904.	10 years.
Alabama .....	4.61	2.83	3.07	4.55	3.10	2.59	2.90	2.79	2.94	4.71	3.56
Colorado .....	3.05	10.07	4.99	3.23	5.60	3.99	6.88	8.11	3.89	8.26	5.86
Illinois .....	2.35	2.33	2.04	2.14	2.27	2.39	2.24	2.15	3.13	2.87	2.43
Indiana.....	2.92	3.94	2.00	2.63	2.07	1.82	1.98	1.83	3.64	2.70	2.55
Indian Ter.....	1.64	3.26	6.34	4.82	6.24	7.59	8.35	9.62	5.42	3.63	5.84
Iowa.....	1.82	2.62	2.45	3.38	2.49	2.22	1.97	4.23	1.59	1.90	2.41
Kansas.....	1.11	1.36	0.71	1.95	1.57	2.06	2.28	2.70	3.61	3.09	2.03
Kentucky .....	1.02	0.79	1.55	0.67	0.83	2.06	2.14	1.58	1.85	1.37	1.43
Maryland.....	2.30	1.58	1.17	0.89	1.08	1.32	2.23	1.99	2.29	*	1.67
Missouri.....	1.84	2.43	1.22	1.22	1.80	1.31	1.63	1.09	1.85	1.47	1.57
New Mexico.....	16.88	4.87	5.13	3.71	7.98	7.44	4.81	10.11	7.26	7.61	7.56
Ohio.....	1.79	1.44	1.39	1.77	2.03	2.14	2.15	2.16	2.75	2.57	2.08
Pennsylvania (anthr.)..	2.93	3.35	2.83	2.89	3.28	2.86	3.47	2.03	3.41	3.69	3.08
Pennsylvania (bit.).....	1.83	2.14	1.72	2.27	2.82	2.43	2.56	3.37	2.65	3.45	2.63
Tennessee.....	7.23	3.37	1.58	2.43	2.60	1.15	6.10	25.80	2.69	2.81	5.69
Utah.....	1.49	4.35	4.17	4.38	.....	138.96	5.81	3.24	3.21	4.06	18.11
Washington.....	12.38	2.98	2.48	2.70	13.60	7.79	5.59	7.83	5.13	6.69	6.70
West Virginia.....	3.97	2.68	2.89	3.86	3.55	5.03	4.01	3.78	4.03	3.06	3.69
British Columbia.....	3.42	3.27	2.47	2.34	2.91	4.22	25.67	34.65	9.85	8.31	10.67
Nova Scotia.....	1.55	1.33	1.35	1.56	3.39	3.17	1.83	2.36	2.79	1.63	2.13
Total.....	2.67	2.79	2.34	2.59	2.98	3.24	3.24	3.49	3.14	3.38	3.03

\* No report.

The following table presents the fatal accidents in the coal mines of the State for twenty-three years, showing by districts the number killed by falls and by other causes:

TABLE 74—*Fatal Accidents from Falls in Mines and from Other Causes, by Districts, with Averages and Percentages for Twenty-three Years.*

YEAR.	DISTRICT.														Total from falls in mines.		Total from other causes.		Total deaths.
	First.		Second.		Third.		Fourth.		Fifth.		Sixth.		Seventh.						
	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.					
	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.	Falls.	Other causes.					
1883 .....	7	72	1	....	13	5	11	5	8	12	....	....	....	....	40	94	134		
1884 .....	6	5	5	1	8	4	4	5	6	2	....	....	....	....	29	17	46		
1885 .....	6	4	....	3	2	4	9	4	3	4	....	....	....	....	20	19	39		
1886 .....	9	5	3	3	5	6	8	1	7	5	....	....	....	....	32	20	52		
1887 .....	10	4	3	2	3	2	2	1	10	4	....	....	....	....	28	13	41		
1888 .....	16	3	1	4	5	5	5	3	6	7	....	....	....	....	33	22	55		
1889 .....	8	6	1	2	3	3	6	2	8	3	....	....	....	....	26	16	42		
1890 .....	15	1	1	4	8	2	5	6	7	4	....	....	....	....	36	17	53		
1891 .....	10	5	2	2	4	5	6	6	11	9	....	....	....	....	33	27	60		
1892 .....	8	2	1	....	5	6	8	16	6	5	....	....	....	....	28	29	57		
1893 .....	15	2	3	2	8	4	6	4	16	9	....	....	....	....	48	21	69		
1894 .....	13	6	5	4	5	5	10	9	10	5	....	....	....	....	43	29	72		
1895 .....	8	8	7	5	7	9	7	8	9	7	....	....	....	....	38	37	75		
1896 .....	14	4	4	7	3	1	8	6	3	13	4	....	5	5	41	36	77		
1897 .....	8	3	4	5	3	1	10	....	11	8	8	3	2	3	46	23	69		
1898 .....	8	4	5	5	1	3	15	4	3	2	4	4	7	10	43	32	75		
1899 .....	6	1	4	8	2	2	9	2	7	7	14	8	9	5	51	33	84		
1900 .....	13	5	3	4	2	3	16	8	8	14	5	6	4	3	51	43	94		
1901 .....	9	2	4	5	1	3	14	7	5	12	14	8	10	5	57	42	99		
1902 .....	9	6	5	2	5	1	10	10	5	12	13	6	8	7	55	44	99		
1903 .....	14	10	6	5	3	6	22	8	7	19	15	17	12	12	79	77	156		
1904 .....	11	2	3	4	7	9	15	14	13	14	22	13	8	22	78	79	157		
1905 .....	6	3	6	8	1	8	25	15	12	11	19	6	11	68	80	119	199		
23 years .....	229	163	77	85	104	97	231	144	181	188	118	71	76	140	1015	889	1,904		
Averages .....	10.0	7.1	3.3	3.7	4.5	4.2	10.0	6.3	7.9	8.2	*5.1	*3.1	*3.3	*6.1	44.1	38.7	82.8		
Percentages .....	58.4	41.6	47.5	52.5	51.7	48.3	61.6	38.4	49.1	50.9	62.4	37.6	35.2	64.8	53.3	46.7	100.00		

\* Ten years.

Observing the totals for the whole number of years, it is found that 1,904 men have been killed in the coal mines of the State; of this number 1,015 or 53.31 per cent were killed by falling roof and sides.

The numbers shown in the foregoing table have been reduced to percentages, showing by districts for 23 years the per cent of the fatal accidents caused by falling roof and sides. While some of the districts show a large increase of this class of fatal accidents over last year, and some of the preceding years, other districts show a decided decrease. For the State the accidents from these causes for the year is only 40 per cent, being less than for any year since 1883.

TABLE 75. *Percentages of Fatal Accidents Caused by Falling Roof or Sides, for Twenty-three Years, by Districts.*

YEAR.	DISTRICT.							THE STATE.	
	First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.	Total deaths.	Per cent.
1883.....	8.9	100	82.4	62.5	40	.....	.....	134	30
1884.....	27.8	83.8	66.7	44.4	75	.....	.....	46	56.5
1885.....	60	.....	33.8	69.2	43	.....	.....	39	51.3
1886.....	64.8	50	45.5	89	58.8	.....	.....	52	61.5
1887.....	71.4	60	60	66	71.4	.....	.....	41	68.3
1888.....	84.2	20	50	62.5	46.2	.....	.....	55	60
1889.....	57.1	83.8	50	75	72.7	.....	.....	42	62
1890.....	98.8	20	80	45.5	63.6	.....	.....	53	67.9
1891.....	66.7	50	44.4	50	55	.....	.....	60	55
1892.....	80	100	45.5	33.3	54.5	.....	.....	57	49.1
1893.....	38.2	60	66.6	60	61	.....	.....	69	69.6
1894.....	68.4	44.4	50	52.6	66.6	.....	.....	72	58.3
1895.....	80	58.3	43.75	46.67	56.3	.....	.....	75	50.7
1896.....	77.8	36.4	75	57.1	18.8	100	50	77	53.3
1897.....	72.7	44.4	75	100	57.9	72.7	40	69	66.7
1898.....	66.7	50	25	79	60	50	41.2	75	58.1
1899.....	85.7	33.3	50	81.8	50	63.6	64.3	84	60.7
1900.....	72.2	42.9	40	66.7	36.4	45.5	57	94	54.3
1901.....	81.8	44.4	25	66.7	29.4	63.6	66.7	99	57.6
1902.....	60	71.43	83.33	50	29.41	68.42	53.33	99	55.55
1903.....	58.33	54.35	33.33	73.33	26.92	46.88	50	136	50.64
1904.....	84.61	42.86	43.75	51.72	48.15	62.86	28.06	157	49.68
1905.....	66.7	42.9	11.1	62.5	52.2	76	13.9	199	40.2
23 years.....	58.42	47.33	51.74	61.60	49.05	62.43	53.19	1904	53.31

\* Ten years.

The following table presents the occupations and conjugal relations of the killed for the year by districts.

TABLE 76—*Occupation and Conjugal Relation of the Killed.*

Number.	OCCUPATION.	DISTRICTS AND NUMBER OF FATAL CASUALTIES IN EACH.							Total number killed.	CONJUGAL RELATION.				
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.		Married.	Single.	Widows.	Children.	Dependents.
1	Cager.....							1	1	1			3	3
2	Carpenter.....					1			1	1		1	2	3
3	Drivers.....		1		5	1	2		9	4	5	4	7	11
4	Electrician.....							1	1	1		1		
5	Engineer.....		1						1	1		1	3	4
6	Examiner.....						1	1	2	1	1	1	4	5
7	Laborer.....				1				1	1		1	3	4
8	Machinist.....							1	1		1			
9	Machine helpers.....					1	2		3		3			
10	Miners.....	8	11	7	31	16	18	71	162	99	63	98	239	334
11	Mine managers.....							1	1	1		1	1	2
12	Powderman.....				1				1	1		1	2	3
13	Pusher.....	1							1		1			
14	Roadman.....					1			1		1			
15	Shot firers.....			2	1			1	4		4			
16	Sinkers.....		1				1		2	1	1	1		1
17	State Inspector.....							1	1	1		1	3	4
18	Sumper.....						1		1	1		1		1
19	Timbermen.....				1	3			4	1	3	1	2	3
20	Yardmen.....							1	1	1		1	1	2
	Total.....	9	14	9	40	23	25	79	199	116	83	114	270	380

It will be seen that the occupations of the miner is much more hazardous than that of any other workman in and about the coal mines; this year 162 were killed, which is 3.9 out of every 1,000 miners employed.

For the year there were 114 wives made widows and 270 children left without a father, and in all leaving 380 persons dependent.

## NON-FATAL ACCIDENTS.

The number of non-fatal accidents which have occurred in the coal mines of the State during the year is 535; this number are those who have sustained a loss of thirty or more days of time; 507 or 95 per cent of the injured were employed underground.

Considered by districts, it will be seen that the proportion of this class of accidents, compared with the number employed and the tons produced, is wholly irregular.

The following table presents the record for the year:

TABLE 77—Non-Fatal Accidents, By Districts—1905.

DISTRICT.	Number of men injured.	INJURED WORKING.		WHOLE NUMBER EMPLOYED.		Total number of employes.	Total tons of coal mined.	Number of employes to one man injured.	Ratio per 1000.	Number of tons of coal mined to each man injured.
		Under ground.	Above ground.	Under ground.	Above ground.					
First.....	102	100	2	7,520	637	8,157	3,396,807	80	12.50	33,302
Second.....	83	77	6	7,125	636	7,761	3,212,728	94	10.69	38,708
Third.....	23	23	.....	4,899	558	5,397	3,107,379	243	4.26	135,103
Fourth.....	102	95	7	6,727	214	7,441	4,477,632	73	13.71	43,907
Fifth.....	81	75	6	9,186	989	10,175	7,435,952	126	7.96	91,802
Sixth.....	59	59	.....	9,520	1,116	10,636	8,506,929	180	5.55	144,185
Seventh.....	85	78	7	8,519	1,144	9,663	7,045,947	114	8.79	82,894
The State.....	535	507	28	53,436	5,794	59,230	37,183,374	111	9.03	69,502

The number of persons injured per 1,000 employed is 9.03; the number per 1,000 working underground is 9.49, while the ratio is 4.85 of those employed on the surface.

The following table presents the record of non-fatal accidents for twenty-three years:

TABLE 78—*Non-Fatal Accidents for Twenty-three Years.*

YEAR.	Number of men injured.	Total number of employes.	Total number of tons of coal mined.	Number of employes to one man injured.	Rate per 1,000.	Number of tons of coal produced to one man injured.
1883.....	231	23,939	12,123,456	104	9.6	52,482
1884.....	197	25,575	12,208,075	130	7.7	61,970
1885.....	176	25,446	11,834,459	145	6.9	67,241
1886.....	171	25,846	11,175,231	151	6.6	66,126
1887.....	180	26,804	12,423,066	149	6.7	69,017
1888.....	179	29,410	14,328,181	164	6.1	80,046
1889.....	201	30,076	14,017,298	150	6.7	69,738
1890.....	294	28,574	15,274,727	97	10.3	51,955
1891.....	367	32,951	15,660,698	90	11.1	42,672
1892.....	370	33,632	17,062,276	91	11.0	46,114
1893.....	403	35,390	19,949,564	88	11.4	49,503
1894.....	521	32,635	17,113,576	63	16.0	32,848
1895.....	605	31,962	17,735,864	53	18.9	29,315
1896.....	672	33,054	19,786,626	49	20.3	29,444
1897.....	518	33,788	20,072,758	65	15.3	38,751
1898.....	438	35,026	18,599,299	80	12.5	42,464
1899.....	597	36,991	23,434,445	62	16.1	39,254
1900.....	611	39,384	25,153,939	65	15.5	41,168
1901.....	422	44,143	26,635,319	104.6	9.56	63,117
1902.....	406	46,005	30,021,300	127	8.8	73,944
1903.....	410	49,814	34,955,400	121	8.2	85,257
1904.....	507	54,774	37,077,897	108	9.26	73,132
1905.....	535	59,230	37,183,374	111	9.01	69,502
Averages, 23 years..	392	35,411	20,166,384	90.3	11.07	51,445

The number of this class of accidents for this year is considerably in excess of the number for either of the past four years.



The following table shows the occupation of those suffering injuries in the mines for the past year:

TABLE 79—*Non-Fatal Accidents by Occupation and Districts With Totals and Percentages.*

Number.	OCCUPATION.	DISTRICTS.							Totals.	Per- cent- ages.
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.		
1	Bushers .....	1							1	0.19
2	Cagers .....	1	3			4	1		9	1.68
3	Carpenters .....					1		1	2	0.37
4	Cartrimmers .....				1				1	0.19
5	Company men .....		11						11	2.06
6	Drivers .....	11	10	6	15	31	15	13	101	18.88
7	Electricians .....							1	1	0.19
8	Engineers .....				1			1	2	0.37
9	Firemen .....							1	1	0.19
10	Greasers .....					2			2	0.37
11	Laborers .....				7	1	2	3	13	2.43
12	Loaders .....					1	2	5	8	1.50
13	Machine helpers .....				1	1	2		4	0.75
14	Machine runners .....				1	1	2	1	5	0.93
15	Miners .....	80	52	15	62	25	29	42	305	57.00
16	Mine managers .....		1	1				1	3	0.56
17	Oilers .....						1		1	0.19
18	Roadmen .....	5				1			6	1.12
19	Rockmen .....				1				1	0.19
20	Shot-firers .....				1	1		5	7	1.31
21	Sinkers .....				1		2		3	0.56
22	Spraggers .....	2	1	1	1				5	0.93
23	Timbermen .....				5	4		3	12	2.24
24	Topmen .....		4		3	2		2	11	2.06
25	Trackmen .....						3	2	5	0.93
26	Trappers .....	1	1		1	3			6	1.12
27	Trimmers .....					1		1	2	0.37
28	Tripriders .....				1			2	3	0.56
29	Washers .....							1	1	0.19
30	Watchmen .....					1			1	0.19
31	Weighmen .....	1							1	0.19
32	Yardmen .....					1			1	0.19
	Totals .....	102	83	23	102	81	59	85	535	100.00
	Percentages ...	19.07	15.51	4.30	19.07	15.14	11.03	15.88	100.00	.....

Observing the last column of the table, it will be seen that miners represent 57 per cent of the total number injured; this is the same per cent as reported last year. Drivers in the mines account for 19 per cent. Considered by districts, it is shown that the first, second and fourth, report much the largest number of miners injured, combined, amounting to 63.5 per cent.

The following table presents the conjugal relationship of the injured, as well as the time lost for injuries:

TABLE 80—*Conjugal Relations of the Injured in Non-Fatal Accidents, and Time Lost, by Districts.*

DISTRICT.	Total.	Married.	Single.	Children	Depend- ents.	Number recov- ered and losing time.	Total days lost	Aver- age days lost.
First .....	102	60	42	181	202	84	5,928	70.60
Second .....	83	51	32	147	198	74	4,112	55.60
Third .....	23	12	11	12	34	23	994	43.20
Fourth .....	102	52	50	139	189	99	7,110	72.00
Fifth .....	81	39	42	72	111	65	3,250	50.00
Sixth .....	59	39	20	102	135	51	2,611	51.20
Seventh .....	85	50	26	96	153	70	4,304	61.49
The State....	535	312	223	749	1,022	466	28,309	60.70

Of the total number injured 312 or 58.32 per cent were married men, each having an average of 2.4 children, and 3.28 persons to a family.

At the date of this report, 466 or 87.1 per cent of the men injured, had recovered so as to resume work, leaving sixty-nine or 12.9 per cent whose injuries were of such serious nature that, in all probability, very few of them will again be able to resume work in the mines. The 466 men having recovered and able to resume work lost on an average of 60.7 days each.

The causes leading up to the injuries of the men accounted for in these tables are shown in the following table. These causes are given in detail every year; this year there are twenty-four, last year the

number was thirty-two; falling coal and rock continues as the principal cause of this class of accidents. The table follows:

TABLE 81—*Causes of Non-Fatal Accidents, by Districts.*

Number.	CAUSE.	DISTRICT.							The State.	Percentages.
		First.	Second.	Third.	Fourth.	Fifth.	Sixth.	Seventh.		
1	Blasts.....			1			2	4	7	1.31
2	Blown out shots.....							5	5	0.93
3	Cage.....	2	1		2	4	1	3	13	2.42
4	Castings, crowbar, etc.....	1	3		4	3	3	3	17	3.18
5	Explosion, cap.....							1	1	0.19
6	Explosion, gas.....	2		3				4	9	1.68
7	Explosion, powder.....	1		3	4	1		6	15	2.80
8	Falling coal, rock, etc.....	70	50	7	69	20	26	29	271	50.66
9	Falling timber.....	1			2	1	4		8	1.50
10	Falling down shaft.....					1			1	0.19
11	Falling from car.....			1	1		1		3	0.56
12	Falling from tower.....		1						1	0.19
13	Falling from trestle.....				1			1	2	0.37
14	Falling into pit.....		1					1	2	0.37
15	Falling on top-landing.....		1						1	0.19
16	Flying coal.....	4			2	2	1	4	13	2.42
17	Flying iron.....		1						1	0.19
18	Gas and smoke.....				1	1	1		3	0.56
19	Machines and motors.....				1		3	7	11	2.06
20	Mule.....			1	1	4		1	7	1.31
21	Pit cars.....	21	25	6	12	38	15	12	129	24.11
22	Premature blasts.....			1		3			4	0.75
23	Railroad cars.....				2	3		3	8	1.50
24	Tail chains.....						2	1	3	0.56
	Totals.....	102	83	23	102	81	59	85	535	100.00

The final column in the table gives the percentages of the different causes; falling roof and sides represents 50.66 per cent of the total, while pit cars accounts for 24.11 per cent; these two causes comprise 400, or 74.77 per cent of the total number injured, thus leaving only 25.23 per cent distributed amongst the other twenty-two causes.

The non-fatal accidents resulting from explosions of all kinds, including flying coal, also from falls in the mines and from other causes, are tabulated in similar form and under the same headings as fatal accidents, shown in table 68, and for the past five years.

TABLE 82—*Non-fatal Accidents Caused Primarily by Explosions, Falling Coal, Rock, etc., and by Other Causes, by Districts, for the Year 1905, and for the Four Preceding Years.*

DISTRICTS AND YEARS.	Blast ex- plosion.	Blast pre- mature.	Blown out shots.	Powder ex- plosions.	Flying coal.	Total from blasts, etc.	Falling coal, rock, etc.	Other causes.	Total all causes.
First.....	2			1	4	7	70	25	102
Second.....							49	34	83
Third.....	4	1		3		8	7	8	23
Fourth.....				4	2	6	69	27	102
Fifth.....		2	1		2	5	19	57	81
Sixth.....	2			1	1	4	26	29	59
Seventh.....	*8		5	6	4	23	29	33	85
1905.....	16	3	6	15	13	53	269	213	535
1904.....	†12	5	2	29	12	60	264	183	507
1903.....	†18	3	12	7	12	52	164	194	410
1902.....	§17	1	1	6	5	30	198	178	406
1901.....	3	11	2	5	9	30	235	159	422
Five years.....	66	23	23	62	51	225	1,128	927	2,280

\* Three explosions of gas.

† Three explosions of gas, three fire damp.

‡ Five explosions of gas.

§ Two explosions of gas.

|| Explosion of gas.

The total number of non-fatal accidents was 535 for the past year, of these fifty-three or 9.91 per cent occurred, or was traceable to explosions of different kinds; 269 or 50.28 per cent were from falling coal, rock, etc., in the mines, and 213 or 39.81 per cent from all other causes. For the five years, covered in the table, there have been 2,280 of this class of accidents. By the divisions observed, it is found that 225 or 9.87 per cent sustained injuries from explosions; 1,128 or 49.47 per cent from falls in the mines, and 927 or 40.66 per cent from all other causes. The percentages for the five years correspond very closely to those of the present year.

The non-fatal accidents for twenty-three years is shown in the following table:

**TABLE 83—Non-Fatal Accidents from Falling Roof and Sides, and Other Causes, with Percentages Caused by Falling Roof—23 Years.**

YEAR.	NON-FATAL ACCIDENTS.				YEAR.	NON-FATAL ACCIDENTS.			
	Total.	Falling roof and sides.	All other causes.	Per cent caused by falling roof or sides.		Total.	Falling roof and sides.	All other causes.	Per cent caused by falling roof or sides.
1883.....	231	180	101	56.28	1895.....	605	338	267	55.87
1884.....	197	135	62	68.53	1896.....	672	373	299	55.51
1885.....	176	118	58	67.00	1897.....	518	310	208	59.85
1886.....	171	109	62	63.74	1898.....	438	252	186	60.87
1887.....	180	124	56	68.88	1899.....	597	335	262	56.12
1888.....	179	112	67	62.58	1900.....	611	323	288	52.86
1889.....	201	129	72	64.17	1901.....	422	233	189	55.21
1890.....	294	196	98	66.66	1902.....	406	198	208	48.77
1891.....	367	227	140	61.85	1903.....	410	190	220	46.34
1892.....	370	234	136	63.25	1904.....	507	264	243	52.07
1893.....	403	254	149	63.03	1905.....	535	271	264	50.66
1894.....	521	294	227	56.43	Totals.	9,011	5,149	3,862	57.14

This table shows the total number injured, also those injured from falling roof and sides, in all the mines of the State, for a series of years. Separated from those resulting from all other causes, the total number for this year is larger than for the past four years; however, the per cent from falls in the mines is less than last year, but larger than for the two previous years. With the exception of the year 1901 the percentage of accidents from falls in the mines has been less for the past six years, than for the seventeen previous years.

The fatal and non-fatal accidents in the coal mines of the State are presented in parallel columns for a series of twenty-three years:

TABLE 84—*Total Number Killed and Injured, with Percentages of all Accidents Caused by Falling Roof or Sides for 23 Years.*

YEAR.	NUMBER.			PER CENT BY FALLING ROOF AND SIDES		
	Killed.	Injured.	Total.	Killed.	Injured.	Total.
1883.....	134	231	365	30	56.28	47.7
1884.....	46	197	243	56.5	68.53	66.25
1885.....	39	176	215	51.3	67	64.18
1886.....	52	171	223	61.5	63.74	63.23
1887.....	41	180	221	68.3	68.88	68.77
1888.....	55	179	234	60	62.58	61.97
1889.....	42	201	243	61.9	64.17	63.78
1890.....	53	294	347	67.9	66.66	66.86
1891.....	60	367	427	55	61.85	60.88
1892.....	57	370	427	49.1	63.25	61.36
1893.....	69	408	472	69.6	63.03	63.98
1894.....	72	521	593	58.3	56.43	56.82
1895.....	75	605	680	50.7	55.87	55.59
1896.....	77	672	749	53.3	55.51	55.27
1897.....	69	518	587	66.7	59.85	60.65
1898.....	75	438	513	57.33	60.87	60.34
1899.....	84	597	681	60.71	56.12	56.68
1900.....	94	611	705	54.3	52.86	53.1
1901.....	99	422	521	56.43	55.21	55.45
1902.....	99	406	505	55.55	48.77	50.1
1903.....	156	410	566	50.64	46.34	47.53
1904.....	157	507	664	49.68	52.07	51.51
1905.....	199	535	734	40.20	50.66	47.82
Twenty-three years.....	1,904	9,011	10,915	53.31	57.14	56.47

The total number of persons killed and injured in and about the mines during the twenty-three years shown in the table, was 10,915; of this number 1,904 or 17.44 per cent were killed outright or died soon after meeting the accident, while 9,011 or 82.56 per cent were seriously injured, many of whom were crippled for life. The bottom line in the table discloses that, during the series of years presented, 53.31 per cent of the killed was caused by falling roof and sides, and 57.14 per cent were injured by the same cause.

The following table shows by percentages the increase or decrease in the number of persons employed at the mines, the tons produced and the killed and injured for twenty-three years.

TABLE 85—Percentages of Increase and Decrease from Year to Year of Men Employed, Tons Produced, Men Killed and Men Injured for a Series of Twenty-three Years.

YEAR.	MEN EMPLOYED.		TONS PRODUCED.		KILLED.		INJURED.	
	Increase.	De-crease.	Increase.	De-crease.	Increase.	De-crease.	Increase.	De-crease.
1883 to 1884.....	6.83		0.7			65.67		14.72
1885.....		0.5		3.06		15.22		10.66
1886.....	1.57			5.57	33.33			2.84
1887.....	3.71		11.17			21.15	5.26	
1888.....	9.72		15.34		34.15			0.56
1889.....	2.26			2.17		23.64	12.39	
1890.....		5.00	8.97		26.2		46.27	
1891.....	15.31		2.53		13.2		24.83	
1892.....	2.07		8.95			5.00	0.82	
1893.....	5.23		16.91		21.05		8.92	
1894.....		7.78		14.22	4.35		29.28	
1895.....		2.06	3.64		4.17		16.12	
1896.....	3.42		11.56		2.67		11.07	
1897.....	2.22		1.45			10.4		8.04
1898.....	3.66			7.34	8.7			15.44
1899.....	5.61		26.00		12.00		36.3	
1900.....	6.47		7.34		1.19		2.35	
1901.....	12.1		5.88		7.4			30.9
1902.....	4.21		12.71		7.4			3.8
1903.....	8.28		16.44		57.58		0.99	
1904.....	1.00		6.07		0.64		23.66	
1905.....	8.14		0.28		26.75		5.52	
For 23 years..	147.42		206.71		48.51		131.60	

#### BLASTING DOWN COAL IN THE MINES.

The schedules prepared by the Bureau this year and furnished to the State inspectors, on which to collect statistics of the coal industry from the operators, contained an inquiry as to the methods used in blasting coal; whether from the solid, or, undercut before blasting, or, by both of these methods. The returns received came from 385

of the 397 shipping mines, showing, by districts, each mine, its location and the method practiced, also the tons of coal produced. The twelve mines failing to make any report on this matter, had an output of 544,003 tons.

The table following presents the record for the year, and is immediately succeeded by a summing up of the matter by districts.

TABLE 86—*Method of Mining Coal in the Mines of Illinois where Powder is Used for Blasting Purposes, 1905.*

FIRST DISTRICT.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons.
Chi., Wilmington & Vermilion C. Co. No. 1	S. Wilmington.	.....	221,870	.....
Chi., Wilmington & Vermilion C. Co. No. 2	do.	.....	190,123	.....
Braceville Coal Co. No. 5	Braceville.	.....	164,224	.....
Big Four Coal Co. No. 5	Carbon Hill.	.....	134,014	.....
Big Four Coal Co. No. 3	do.	.....	122,211	.....
Wilmington Star Mining Co. No. 6	Coal City	.....		96,434
Braceville Coal Co. No. 6	Braceville.	.....	91,395	.....
Wilmington Coal M. & Manf. Co. No. 4	Diamond	.....		86,308
Big Four Wilmington Coal Co. No. 6	Carbon Hill.	.....	82,368	.....
Wilmington Star Mining Co. No. 5	Coal City	.....	64,617	.....
Wilmington Star Mining Co. No. 7	do.	.....		30,818
Wilmington Coal M. & Manf. Co. No. 5	Diamond	.....		14,865
LaSalle Co. Carbon Coal Co. No. 1	LaSalle	.....	178,681	.....
LaSalle Co. Carbon Coal Co., Union	do.	.....	162,602	.....
Oglesby Coal Co. No. 1	Oglesby	.....	148,552	.....
LaSalle Co. Carbon Coal Co., LaSalle	LaSalle	.....	147,730	.....
LaSalle Co. Carbon Coal Co., Rockwell	do.	.....	137,665	.....
Star Coal Co. No. 5	Streator	.....		136,687
Chi., Wilm. & Ver. Coal Co. No. 1	do.	.....		127,966
M. & H. Zinc Co., M. & H.	LaSalle	101,685		.....
Illinois Zinc Co. No. 1	Peru	.....		77,558
Chi., Wilm. & Ver. Coal Co. No. 2	Streator	.....		72,847
James Cahill Est. No. 1	Peru	.....	69,600	.....
Mrs. E. Hakes No. 2	Rutland	.....	62,338	.....
Home Coal Co. No. 1	Streator	.....	31,854	.....
Star Coal Co. No. 4	do.	.....		19,463
North Wilmington Coal Co. No. 1	Seneca	.....	11,169	.....
Louis Evans & Son No. 1	Kangley	.....		9,000
Farmers Fuel Co. No. 1	Streator	.....		566
Cardiff Coal Co. No. 2	Cardiff	.....		177,529



Table 86—*Manner of Blasting Coal*—Continued.FIRST DISTRICT—*Concluded.*

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Johnson Co-operative Coal Co. No. 1.....	Fairbury.....	.....	.....	9,000
Phoenix Coal & Mining Co. No. 1.....	Cornell.....	.....	.....	8,570
Marshall & Harr No. 1.....	Streator.....	.....	2,100	.....
Consolidated Coal & Iron Co. "B".....	Reddick.....	.....	.....	700
Murphy, Keenan & Co. No. 3.....	Braidwood.....	.....	58,043	.....
Wilm. Coal M. & Manf. Co. No. 6.....	Diamond.....	.....	29,412	.....
Rixson Coal Co. No. 1.....	Braceville.....	.....	28,372	.....
Joliet-Wilm. Coal Co. No. 1.....	Braidwood.....	.....	6,300	.....
Thirty-eight mines.....	.....	101,685	2,145,240	868,311

## SECOND DISTRICT.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Illinois Third Vein Coal Co. No. 1.....	Ladd.....	.....	271,088	.....
Spring Valley Coal Co. No. 2 ..	Spring Valley..	.....	260,940	.....
Spring Valley Coal Co. No. 4 ..	.do ..	.....	245,658	.....
Spring Valley Coal Co. No. 3 ..	.do ..	.....	242,340	.....
Marquette Third Vein Coal Co. No. 1.....	.do ..	.....	237,323	.....
Spring Valley Coal Co. No. 1 ..	.do ..	.....	235,573	.....
Spring Valley Coal Co. No. 5 ..	.do ..	.....	229,141	.....
Kewanee Coal Co. No. 1.....	Kewanee ..	.....	.....	73,054
Brier Bluff Mining Co.....	Brier Bluff.....	1,524	.....	.....
Yates City Coal Co. No. 1 ..	Yates City ..	14,500	.....	.....
Devlin Coal Co. No. 1 ..	Toluca.....	.....	379,974	.....
Wenona Coal Co. No. 1.....	Wenona ..	.....	110,175	.....
Marquette Third Vein Coal Co ..	Sparland.....	.....	13,627	.....
Empire Coal Co. No. 3.....	Glichrist ..	174,780	.....	.....
Coal Valley Mining Co. No. 2.....	Sherrard ..	134,618	.....	.....
Alden Coal Co. No. 4.....	Wanlock.....	69,168	.....	.....
Alden Coal Co. No. 2 ..	.do ..	69,078	.....	.....
Coal Valley Mining Co. No. 1.....	Cable ..	57,674	.....	.....
B. B. Peterson.....	.do ..	11,800	.....	.....
Docherty Bros.....	Boden ..	5,600	.....	.....

Table 86—*Manner of Blasting Coal*—Continued.SECOND DISTRICT—*Concluded.*

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Jones & Hayburn.....	Viola .....	3,840	.....	.....
Alfred Lilliman .....	Cable .....	3,434	.....	.....
St. Paul Coal Co. No. 1 .....	Granville .....	.....	42,964	.....
Silvis Mining Co. No. 2.....	Carbon Cliff .....	17,720	.....	.....
Volunteer Coal Co.....	Coal Valley .....	5,536	.....	.....
Wyoming Coal Co. No. 1.....	Wyoming .....	7,800	.....	.....
Watson & Higbee.....	.do .....	4,960	.....	.....
Twenty-seven mines .....	.....	582,032	2,268,803	73,054

## THIRD DISTRICT.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Maplewood Coal Co. No. 1.....	Peoria .....	235,948	.....	.....
Monmouth Coal Co. No. 1. ....	Brereton .....	214,123	.....	.....
Whitebreast Fuel Co. of Illinois "E" .....	Dunfermline ...	158,500	.....	.....
Big Creek Coal Co. No. 2.....	St. David .....	132,982	.....	.....
Norris Coal Mining Co.....	Norris .....	106,000	.....	.....
Applegate & Lewis .....	Cuba .....	89,000	.....	.....
Newsam Bros .....	Peoria .....	66,554	.....	.....
Whitebreast Fuel Co. of Illinois . ....	Dunfermline ...	63,710	.....	.....
East Cuba Coal Co.....	Cuba .....	61,240	.....	.....
Maplewood Coal Co. No. 2.....	Peoria .....	49,999	.....	.....
Big Creek Coal Co. No. 1 .....	St. David .....	40,808	.....	.....
Foley Coal Co. No. 1 .....	Canton .....	40,225	.....	.....
Canton Union Coal Co .....	.do .....	31,400	.....	.....
Spoon River Coal Co.....	Canton .....	25,064	.....	.....
Farmington Coal Co., Nickleplate....	Farmington ...	14,449	.....	.....
Monarch Coal Mining Co., Monarch.....	Monmouth.....	12,402	.....	.....
Essex & Fritz Coal Co., No. 1.....	Galesburg.....	11,200	.....	.....
J. Riley.....	Breeds .....	8,960	.....	.....
Greenview Coal Mining Co.....	Greenview.....	103,487	.....	.....
Athens Mining Co.....	Athens.....	92,682	.....	.....

Table 86—*Manner of Blasting Coal*—Continued.THIRD DISTRICT—*Concluded.*

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Wabash Coal Co. No. 2.....	Athens.....	72,470	.....	.....
Middletown Coal Co. No. 1 .....	Middletown .....	44,444	.....	.....
Tallula Coal Co.....	Tallula.....	40,181	.....	.....
South Mountain Coal Co.....	Petersburg.....	37,503	.....	.....
Petersburg Coal Mining Co.....	do .....	31,472	.....	.....
Manchester Coal Co.....	do .....	8,000	.....	.....
Peoples Coal Mining Co.....	do .....	5,554	.....	.....
Clark Coal & Coke Co. A .....	Peoria.....	125,120	.....	.....
Wolschlag Coöperative Coal Co.....	do .....	84,900	.....	.....
Newsam Bros.....	do .....	82,989	.....	.....
Scholl Bros. No. 3.....	do .....	70,187	.....	.....
Collieries Coöperative Coal Co.....	Bartonville.....	56,200	.....	.....
Newsam Bros.....	Peoria.....	58,339	.....	.....
Howarth & Taylor.....	Edwards .....	54,066	.....	.....
Vickery Bros.....	Peoria.....	41,000	.....	.....
Rentz Bros.....	Kramm.....	26,000	.....	.....
Central Coal & Coke Co.....	Elmwood .....	32,642	.....	.....
Clark Coal & Coke Co., "B".....	Peoria.....	31,333	.....	.....
Isaac Wantling & Son.....	do .....	29,000	.....	.....
W. E. Foley.....	Mapleton.....	21,887	.....	.....
German Coal Co.....	do .....	14,312	.....	.....
Orchard Mines.....	do .....	9,977	.....	.....
James Walker.....	do .....	10,090	.....	.....
Peter Grant & Son, Excelsior.....	Peoria.....	8,039	.....	.....
Newsam Bros.....	do .....	7,527	.....	.....
Cusack & Edwards.....	Edwards .....	4,760	.....	.....
Tazewell Coal Co.....	Pekin.....	71,863	.....	.....
Phoenix Coal Co. No. 1.....	Peoria.....	57,485	.....	.....
Erie Star Coal Co.....	do .....	22,000	.....	.....
Lake Erie Coal & Mining Co.....	do .....	18,800	.....	.....
Fifty mines.....	.....	2,736,783	.....	.....

Table 86—*Manner of Blasting Coal*—Continued.

## FOURTH DISTRICT.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Springfield Coal Mining Co. No. 6 .....	Taylorville .....	229,060		
Christian County Coal Co., C. C. C. Co. ....	do .....		147,299	
Penwell Coal Mining Co., Penwell .....	Pana .....		134,502	
Newbent Coal Co., north mine .....	do .....		117,335	
Pana Coal Co. No. 1 .....	do .....		118,959	
Assumption Coal and Mining Co. ....	Assumption .....		105,698	
Edinburg Coal Co. No. 1 .....	Edinburg .....	5,037		
Latham Coal Co. No. 1 .....	Lincoln .....	229,966		
Citizens Coal Mining Co. No. 1 .....	do .....	108,335		
Lincoln Coal Co. No. 1 .....	do .....	33,519		
Home Coal Co. No. 1 .....	Mt. Pulaski .....	12,468		
Manufact'rs & Consumers Coal Co. No. 1.	Decatur .....		71,479	
Decatur Coal Co. No. 2 .....	do .....		42,940	
Decatur Coal Co., Niantic .....	do .....	36,060		
Decatur Coal Co. No. 1 .....	do .....		32,391	
Blue Mound Coal Co. No. 1 .....	Blue Mound .....			13,758
Colfax Coöperative Coal Co. No. 1 .....	Colfax .....	24,914		
Ill. Coal Mining & Coke Co. No. 1 .....	Chenoa .....	21,096		
Moweaqua Coal Mining & Mfg. Co. No. 1	Moweaqua .....			102,534
Century Coal Co. No. 1 .....	Tower Hill .....		3,394	
Dering Coal Co. No. 1 .....	Westville .....	334,941		
Kelley Coal Co. No. 4 .....	do .....	301,586		
Kelley Coal Co. No. 3 .....	do .....	273,592		
Kelley Coal Co., Pawnee .....	Grape Creek .....	262,694		
Kelley Coal Co. No. 2 .....	Kelleyville .....	243,002		
Dering Coal Co. No. 2 .....	Westville .....	212,225		
Kelley Coal Co. No. 5 .....	Grape Creek .....	209,780		
Kelley Coal Co., Himrod .....	Himrod .....			190,777
Electric Coal Co., Electric .....	Danville .....	105,104		
Chicago Collieries Co. No. 10 .....	Catlin .....	74,162		
Consolidated Coal Co., Fairmount .....	Fairmount .....	69,056		
Economy Coal Co., Economy .....	Danville .....	66,769		
E. S. Gray Coal Co. No. 4 .....	Oakwood .....	40,000		
Oakwood Coal Co., Oakwood .....	do .....		20,000	
Salt Fork Coal Co., Missionfield .....	Missionfield .....		16,989	
John O'Connell Coal Co., Blue Bird .....	Grape Creek .....	16,959		

Table 86.—*Manner of Blasting Coal*—Continued.FOURTH DISTRICT—*Concluded.*

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Atherton Coal Co., No. 1.....	Muncie .....	10,280	.....	.....
Bunting Bros. No. 1.....	Grape Creek....	8,359	.....	.....
Dering Coal Co., No. 4 .....	Westville .....	3,000	.....	.....
Dering Coal Co. No. 3 .....	do .....	1,500	.....	.....
J. A. Runnell, Star No. 2 .....	Tilton.....	3,108	.....	.....
George H. Haskins, Brookside .....	Grape Creek....	989	.....	.....
Forty-two mines .....	.....	2,937,561	810,986	307,069

## FIFTH DISTRICT.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Illinois Collieries Co. No. 1.....	Viriden .....	.....	.....	340,736
Superior Coal Co. No. 1.....	Gillespie.....	.....	.....	282,711
Consolidated Coal Co. No. 6.....	Staunton .....	.....	.....	219,826
Consolidated Coal Co. No. 10.....	Mt. Olive.....	.....	.....	210,837
Consolidated Coal Co. No. 8.....	do .....	.....	.....	204,161
Superior Coal Co. No. 2.....	Gillespie.....	.....	.....	201,127
Madison Coal Co. No. 5.....	Mt. Olive.....	.....	.....	172,764
Consolidated Coal Co. No. 7.....	Staunton.....	.....	.....	169,657
Royal Colliery.....	Viriden .....	160,563	.....	.....
Greenridge Mining Co.....	Greenridge .....	140,229	.....	.....
Illinois Collieries Co. No. 5.....	Viriden .....	123,735	.....	.....
Consolidated Coal Co. No. 14.....	Staunton .....	.....	.....	119,435
Consolidated Coal Co.....	Carlinville .....	56,850	.....	.....
Consolidated Coal Co., Gillespie.....	Gillespie.....	.....	.....	37,928
Illinois Collieries Co. No. 4.....	Viriden .....	.....	.....	34,637
Consolidated Coal Co., Hornsby.....	Hornsby .....	.....	.....	28,539
Consolidated Coal Co. No. 15.....	Mt. Olive.....	.....	.....	11,069
Dering Coal Co. No. 25.....	Paisley .....	.....	.....	161,313
Hillsboro Coal Co.....	Hillsboro .....	.....	.....	145,838
Clover Leaf Coal Co.....	Coffeen .....	72,396	.....	.....
Illinois Collieries Co. No. 7.....	Litchfield .....	71,597	.....	.....
Kortkamp Coal Co.....	Hillsboro .....	12,252	.....	.....

Table 86—*Manner of Blasting Coal*—Continued.FIFTH DISTRICT—*Concluded.*

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Miller Coal Co.....	Raymond .....			4,800
Chicago, Wilm. & Ver. Coal Co.....	Thayer .....			380,732
Madison Coal Co. No. 6.....	Divernon .....			341,062
Illinois Collieries Co. No. 8.....	Virden .....	278,426		
Springfield Coal Mining Co. No. 5.....	Springfield.....	239,920		
Springfield Coal Mining Co. No. 2.....	Riverton.....	236,232		
Victor Coal Co.....	Pawnee .....	228,896		
Capitol Coö. Coal Co.....	Springfield.....	195,877		
Illinois Collieries Co. No. 2.....	Auburn .....	173,756		
Springfield Coal Mining Co. No. 4.....	Springfield .....	166,640		
Jefferson Coal Co.....	do .....	146,000		
Springfield Coal Mining Co. No. 1.....	Riverton .....	142,278		
Springfield Coal Mining Co. No. 3.....	Springfield .....	141,209		
Woodside Coal Co .....	do .....	137,000		
Sangamon Coal Co.....	do .....	136,320		
West End Coal Co.....	do .....	134,031		
Spaulding Coal Co. No. 2.....	Bissell.....	118,604		
Peabody Mining Co.....	Sherman .....	109,335		
Wabash Coal Co. No. 1.....	Dawson .....	107,044		
Cantrall Coö. Coal Co.....	Cantrall .....	103,493		
Citizens Coal Mining Co. (A).....	Springfield .....	103,038		
Williamsville Coal Mining Co.....	Selbytown.....	96,919		
Auburn & Alton Coal Co.....	Auburn .....	89,576		
Barclay Coal Mining Co.....	Barclay .....	88,262		
Springfield Coö. Coal Co.....	Springfield .....	78,300		
Tuxhorn Coal Co .....	Keys .....	77,314		
Citizens Coal Mining Co. "B". .....	Springfield .....	62,588		
Chicago-Springfield Coal Co.....	do .....	59,149		
Wilmington & Springfield Coal Co.....	do .....	57,105		
Spaulding Coal Co.....	Spaulding .....	36,088		
Black Diamond Coal Co.....	Auburn .....	33,233		
Illinois Collieries Co. No. 3 .....	Virden....	23,396		
Trutter Coal Co .....	Pleasant Plains.	22,425		
Cora Coal Co .....	Andrews.....	2,555		
Fifty-six mines.....		4,262,633		3,067,192

Table 86—*Manner of Blasting Coal*—Continued.SIXTH<sup>a</sup>DISTRICT.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Illinois Collieries Co., Sorento .....	Sorento .....	129,815		
Muren Coal & Ice Co. No. 2 .....	New Baden .....		269,344	
Breese-Trenton Min. Co. No. 1 .....	Breese .....	250,912		
Trenton Coal Co. No. 1 .....	Trenton .....		141,962	
Consolidated Coal Co., Breese .....	Breese .....	115,829		
Consolidated Coal Co., Trenton .....	Trenton .....		63,460	
Germantown Coal Co. No. 1 .....	Germantown .....	46,881		
Breese-Trenton Coal Co. No. 3 .....	Breese .....	13,438		
Donk Bros. Coal & Coke Co. No. 2 .....	Collinsville .....		329,135	
Mt. Olive & Staunton Coal Co. No. 1 .....	Staunton .....		323,371	
Donk Bros. Coal & Coke Co. No. 1 .....	Collinsville .....	315,091		
Donk Bros. Coal & Coke Co. No. 3 .....	Troy .....	290,798		
Lumaghi Coal Co. No. 2 .....	Collinsville .....		225,277	
Madison Coal Co. No. 4 .....	Glen Carbon .....			215,276
Madison Coal Co. No. 2 .....	.do .....			212,840
Consolidated Coal Co., Abbey 3 .....	Collinsville .....	144,527		
Consolidated Coal Co., Heinz Bluff .....	.do .....	143,297		
Mt. Olive & Staunton Coal Co. No. 2 .....	Staunton .....	142,673		
Kerns-Donneiwald Coal Co. No. 1 .....	Worden .....	135,910		
Edwardsville Coal Co. No. 3 .....	Edwardsville .....	114,966		
DeCamp Mining Co. No. 1 .....	Staunton .....	100,972		
Lumaghi Coal Co. No. 3 .....	Collinsville .....	98,641		
Henrietta Coal Co. No. 1 .....	Edwardsville .....			52,471
New Staunton Coal Co. No. 1 .....	Staunton .....			35,155
Consolidated Coal Co., Troy .....	Troy .....	32,262		
Interstate Coal & Mining Co .....	Worden .....		18,485	
Consolidated Coal Co. No. 17 .....	Collinsville .....	4,607		
Pittenger & Davis M. & M. Co. Nos. 3 and 4 .....	Centralia .....	440,143		
Centralia M. & Mfg. Co. No. 2 .....	.do .....	254,248		
Odin Coal Co. ....	Odin .....		188,821	
Sandoval C. & M. Co. No. 1 .....	Salem .....	161,737		
Sandoval C. & M. Co. No. 2 .....	.do .....			25,810
Kinmundy Coal Co. No. 1 .....	Kinmundy .....		10,418	
Salem Coal Co. No. 1 .....	Salem .....		5,173	
St. Louis & O'Fallon Coal Co. No. 1 .....	E. St. Louis .....	389,308		
Muren Coal and Ice Co. No. 1 .....	Belleville .....	159,944		

Table 86—*Manner of Blasting Coal*—Continued.

## SIXTH DISTRICT—Continued.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Superior Coal and Mining Co. No. 1.....	Belleville.....	.....	158,116	.....
Royal Coal and Mining Co. No. 1.....	do.....	.....	.....	149,550
Joseph Taylor Coal Co., Ridge P.....	O'Fallon.....	139,196	.....	.....
Joseph Taylor Coal Co., Taylor.....	do.....	131,364	.....	.....
Walnut Hill Coal Co., Avery.....	Belleville.....	.....	129,798	.....
Crown Coal and Iron Co. No. 4.....	do.....	113,370	.....	.....
Glendale Coal and Mining Co. No. 1.....	do.....	.....	83,609	.....
Borders Coal Co. No. 1.....	Marissa.....	82,300	.....	.....
Avery Coal and Mining Co., Oakland.....	Belleville.....	.....	78,718	.....
Kolb Coal Co. No. 1.....	Mascoutah.....	78,060	.....	.....
Eureka Coal Co. No. 1.....	Marissa.....	74,249	.....	.....
Oak Hill Coal Co. No. 1.....	Belleville.....	.....	71,560	.....
Marissa Coal & Mining Co.....	Marissa.....	69,778	.....	.....
Summit Coal Co. No.....	Belleville.....	67,159	.....	.....
Consolidated Coal Co., Green Mt.....	do.....	.....	65,884	.....
Valley Coal and Mining Co., Valley.....	Mascoutah.....	.....	.....	65,400
Joseph Taylor, St Ellen.....	O'Fallon.....	65,167	.....	.....
Mo. & Ill. Coal Co., Rentchler.....	Belleville.....	57,761	.....	.....
Johnson Coal Co., O. K.....	Marissa.....	56,967	.....	.....
Kolb Coal Co., Vinegar Hill.....	Mascoutah.....	55,751	.....	.....
Hippard Coal Co. No. 1.....	Belleville.....	.....	53,323	.....
Tirre Coal and Mining Co. No. 1.....	Lenzburg.....	50,863	.....	.....
Avery Coal and Mining Co., Randle.....	Freeburg.....	49,993	.....	.....
Hippard Coal Co., Walnut Valley.....	Belleville.....	49,219	.....	.....
Suburban Coal Co., Suburban.....	do.....	44,254	.....	.....
Pittsburg Mining Co.....	do.....	43,750	.....	.....
Lenz Coal and Mining Co. No. 2.....	do.....	.....	.....	43,403
Sunlight Coal Co.....	Freeburg.....	42,072	.....	.....
Mo. & Illinois Coal Co., Wilderman.....	Belleville.....	39,258	.....	.....
Fullerton Coal Co., Skellett.....	do.....	36,800	.....	.....
Marissa Coal and Min. Co. Oak Ridge.....	Marissa.....	34,816	.....	.....
Lebanon Coal and Mining Assn., Bement.....	O'Fallon.....	.....	34,040	.....
Lake Superior Coal Co., Branch.....	Belleville.....	33,406	.....	.....
Highland Coal Co. No. 1.....	do.....	32,250	.....	.....
Mo. & Illinois Coal Co., St. Clair.....	do.....	29,148	.....	.....
Borders Coal Co. No. 2.....	Marissa.....	28,537	.....	.....



Table 86—*Manner of Blasting Coal*—Continued.SIXTH DISTRICT—*Concluded.*

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
O'Fallon C. M. Assn., Darrow.....	O'Fallon .....	.....	.....	28,015
Consolidated Coal Co., Gartside .....	Belleville .....	.....	27,805	.....
Enterprise Mining Co., Rentchler... ..	Rentchler .....	26,957	.....	.....
Charles Hortman, Belleville.....	Belleville .....	26,502	.....	.....
Herman Pfuhl, Richland.....	do .....	25,096	.....	.....
Breeze Trenton Mining Co., Trenton.....	Trenton .....	.....	23,573	.....
Glendale Coal Mining Co. No. 2 .....	Belleville .....	21,704	.....	.....
Little Oak Coal Co .....	do .....	21,574	.....	.....
Consolidated Coal Co., Schureman .....	do .....	.....	20,381	.....
Avery Coal & Mining Co., Advance.....	Marissa.....	20,207	.....	.....
Lebanon Coal & Mining Ass'n, Carbon...	O'Fallon.....	18,172	.....	.....
Fred Murphy, Belleville.....	Belleville .....	18,000	.....	.....
St. Louis & O'Fallon No. 2 .....	East St. Louis ..	.....	16,976	.....
Humboldt Coal & Mining Co.....	Belleville .....	13,776	.....	.....
Beatty Coal Co., Shiloh.....	Mascoutah .....	.....	11,050	.....
T. M. Meek Coal Co., Meek.....	Marissa.....	7,860	.....	.....
Belleville & O'Fallon Coal Mining Co.....	Belleville .....	6,660	.....	.....
Prairie Coal Co .....	do .....	5,004	.....	.....
Lenz Coal & Mining Co. No. 1.....	do .....	4,650	.....	.....
Kolb Coal Co., Fairbanks.....	Mascoutah.....	3,600	.....	.....
Ninety-two mines.....	.....	5,214,244	2,350,279	827,920

## SEVENTH DISTRICT.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Gallatin Coal & Coke Co.....	Equality .....	67,857	.....	.....
Browne & Co., East Side.....	do .....	5,672	.....	.....
Dering Coal Co., No. 11.....	West Frankfort. ....	.....	.....	26,563
Benton Coal Co. No. 1 .....	Benton .....	.....	7,000	.....
Big Muddy Coal & Iron Co. No. 6.....	Murphysboro.....	.....	200,406	.....
Muddy Valley M. & M. Co., Hallidayboro	Hallidayboro.....	198,211	.....	.....
Big Muddy Coal & Iron Co., Harrison .....	Murphysboro.....	.....	145,773	.....
Gartside Coal Co. No. 4.....	do .....	.....	64,448	.....
Inland Coal & Washing Co. No. 1.....	DeSoto.....	56,000	.....	.....

Table 86—*Manner of Blasting Coal*—Continued.

## SEVENTH DISTRICT—Continued.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons.
Gus Blair Big Muddy Coal Co. No. 1.....	Murphysboro ..	.....	.....	50,310
Gartside Coal Co. No. 3.....	do .....	.....	44,742	.....
Chicago & Carbondale Coal Co., Elk Ridge	DeSoto.....	30,000	.....	.....
Schmidgall Coal Co. No. 1.....	Murphysboro...	.....	4,000	.....
Davenport Coal Co.....	Ledford.....	113,682	.....	.....
Gas Coal Co., White Ash.....	Harrisburg.....	95,000	.....	.....
Clifton Coal Co., Clifton.....	Ledford.....	59,535	.....	.....
Galatia Coal Co.....	Galatia.....	31,000	.....	.....
Eldorado Coal & Coke Co. No. 1.....	Eldorado.....	20,078	.....	.....
Gallatin Coal & Coke Co., Nashville.....	Nashville.....	54,315	.....	.....
Adam Kuhn .....	Dubois.....	24,000	.....	.....
Willis Coal Mining Co. No. 1.....	Willisville .....	.....	.....	241,474
White Walnut Coal Co.....	Pinckneyville ..	208,873	.....	.....
Missouri & Illinois Coal Co. No. 4.....	Willisville .....	127,499	.....	.....
Queen City Mining Co.....	Duquoin.....	.....	88,800	.....
Manf. Fuel Co., Jupiter No. 1.....	do .....	74,969	.....	.....
Lake Superior Coal Co., Pope mine.....	do .....	67,605	.....	.....
Greenwood-Davis Coal Co.....	do .....	.....	54,850	.....
Manf. Fuel Co., Jupiter No. 2.....	do .....	46,289	.....	.....
Equitable Coal Co., Majestic.....	do .....	.....	44,402	.....
West Muddy Coal Co.....	Coulterville.....	41,476	.....	.....
Bailey Bros. Coal Co. No. 3.....	Sunfield.....	36,991	.....	.....
Soper & Co., Bernard .....	Cutler.....	36,285	.....	.....
Eaton Fuel Co., Black Diamond.....	Sunfield.....	33,944	.....	.....
Little Muddy Coal Co.....	Tamaroa.....	28,248	.....	.....
New Moon Mining Co., New Moon.....	Duquoin.....	24,613	.....	.....
Morris Bros., Perry Co.....	do .....	24,512	.....	.....
Forester Coal & Coke Co.....	do .....	.....	18,884	.....
Duquoin-Pittsburg Coal & Coke Co.....	do .....	17,992	.....	.....
Manf. Fuel Co., Jupiter No. 3.....	do .....	14,983	.....	.....
Strait Coal Co.....	Pinckneyville ..	9,718	.....	.....
M. H. Wilson Coal Co.....	Duquoin.....	6,600	.....	.....
Manf. Fuel Co., Jupiter No. 5.....	St. Johns.....	4,221	.....	.....
Willis Coal Mining Co. No. 6.....	Percy .....	.....	.....	131,517
Moffat Coal Co., Moffat.....	Sparta.....	79,678	.....	.....
Crystal Coal Co. No. 1.....	Tilden.....	50,882	.....	.....

Table 86—Manner of Blasting Coal—Concluded.

## SEVENTH DISTRICT—Concluded.

NAME OF OPERATOR.	Location of mine.	Blasted from the solid—tons	Undercut before blasting—tons.	Both methods used—tons
Coulterville Mining Co. No. 1.....	Coulterville.....	49,915		
Tilden Coal Co.....	Tilden .....	44,955		
Illinois Fuel Co. No. 4.....	Sparta.....		40,845	
J. A. Greim, Consol.....	Coulterville.....	39,617		
Illinois Fuel Co. No. 3.....	Sparta.....	32,422		
Boyd Coal & Coke Co. No. 1.....	do.....	22,000		
Eureka Coal Co. No. 2.....	Tilden .....	6,981		
Big Muddy Coal & Iron Co. No. 7.....	Herrin .....	447,287		
Chicago & Carterville Coal Co. No. 1.....	do.....	402,088		
Sunnyside Coal Co. No. 1.....	do.....	371,225		
Peabody Coal Co. No. 3.....	Marion.....			319,548
St. Louis & B. M. Coal Co., Dawes.....	Dewmaine.....	239,643		
Chicago-Herrin Coal Co.....	Herrin .....	186,748		
Western Coal Mining Co., Bush.....	Bush .....	174,692		
Chicago & B. M. Coal & Coke Co. No. 1.....	Marion.....	166,262		
Peabody Coal Co. No. 2.....	do.....			164,214
Carterville Dist. Coal Co. No. 6.....	do.....		141,067	
Williamson Co. Coal Co.....	Johnson City...	109,562		
Big Muddy Coal & Iron Co. No. 8.....	Clifford .....		107,861	
Johnson City & B. M. Coal & M. Co.....	Johnson City...	103,027		
Carterville Coal Co. "A".....	Carterville.....		100,431	
Carterville Coal Co. "B".....	do.....		86,362	
Donaly-Koenneck Coal Co., D. R.....	do.....		84,564	
Carterville Coal Co. "C".....	do.....		81,774	
New Virginia Coal Co.....	Johnson City...		80,000	
New Ohio Washed Coal Co. No. 1.....	Carterville.....		76,769	
Robert Dick Coal Co.....	Cambria.....		68,967	
Carterville Mining Co.....	Herrin .....		67,647	
Carterville & B. M. Coal Co. No. 1.....	Cambria.....		62,959	
Watson Coal Co.....	Herrin .....		42,000	
Chl.-Marion Coal Co., White Ash.....	Marion.....		41,265	
Carterville & Herrin Coal Co. No. 1.....	Herrin .....	41,110		
St. Louis-Carterville C. Co., Walnut Rdg.....	do.....	19,812		
Colp Coal Co., Colp mine.....	Carterville.....	14,982		
M. Hampton.....	do.....	6,268		
Eighty mines.....	.....	4,189,304	1,755,816	933,628

The recapitulation of table 86 shows that at 242, or 62.86 per cent of the shipping mines, 20,004,242 or 56.49 per cent of the tons were reduced by the method, commonly known as blasted from the solid. At ninety-one or 23.64 per cent of the mines, 9,331,124, or 26.35 per cent, of the tons were undercut before being blasted down; while at fifty-two or 13.5 per cent of the mines 6,077,174, or 17.16 per cent, were produced by both methods.

The recapitulation follows:

TABLE 87—*Recapitulation by Districts of the Method of Mining Coal by Blasting, 1905.*

DISTRICT.	BLASTED FROM THE SOLID.		UNDERCUT BEFORE BLASTING.		BOTH METHODS USED.		TOTALS.	
	Number of mines.	Tons.	Number of mines.	Tons.	Number of mines.	Tons.	Number of mines.	Tons.
First .....	1	101,685	22	2,145,240	15	868,311	38	3,115,236
Second .....	15	582,032	11	2,268,803	1	73,054	27	2,923,889
Third .....	50	2,736,783	.....	.....	.....	.....	50	2,736,783
Fourth .....	28	2,937,561	11	810,986	3	307,069	42	4,055,616
Fifth .....	38	4,262,633	.....	.....	18	3,067,192	56	7,329,825
Sixth .....	60	5,214,244	23	2,350,279	9	827,920	92	8,392,443
Seventh .....	50	4,169,304	24	1,755,816	6	933,628	80	6,858,748
The State ...	242	20,004,242	91	9,331,124	52	6,077,174	385	55,412,540

NOTE—Twelve mines producing 544,003 tons did not report the method used in blasting.

#### PHYSICAL CHARACTER OF THE COAL MINES IN ILLINOIS.

The usual table of the physical characteristics of the coal mines of the State is presented in the following table, arranged alphabetically by counties.

TABLE 88—Physical Character of Coal Mines, 1905.

## BOND COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Illinois Collieries Co.....	Sorento .....	6	380	6.0	Sh.	St.	P-R.	M...	Hd..	129,815
	1 mine.....										129,815

## BROWN COUNTY.

1	Ed Six.....	Mt. Sterling..	1	30	2.0	Dr.	Ho	P-R.	Hd	Hd..	360
2	Thos. Lewis.....	Ripley.....	1	30	2.0	do	do	do	do	do..	324
3	L. Hedrick.....	do	1	30	2.0	do	do	do	do	do..	280
4	J. Hedrick.....	do	1	30	2.0	do	do	do	do	do..	162
5	J. Howard.....	Mt. Sterling..	1	30	2.0	do	do	do	do	do..	142
6	Geo. Adams.....	do	1	30	2.0	do	do	do	do	do..	138
	Strip coal.....		1		2.0						200
	6 mines.....										1,606

## BUREAU COUNTY.

1	Ill. 3d Vein C. Co., No. 1..	Ladd.....	2	485	3.6	Sh.	St.	L-W	M	Hd..	271,088
2	Spring Valley C. Co., No. 2	Spring Valley	2	342	3.6	do	do	do	do	do..	260,940
3	Spring Valley C. Co., No. 4	do	2	410	3.6	do	do	do	do	do..	245,658
4	Spring Valley C. Co., No. 5	do	2	481	3.6	do	do	do	do	do..	242,340
5	Marquette 3d V. C. Co., No. 1	Marquette....	2	302	3.6	do	do	do	F-M	do..	237,323
6	Spring Valley C. Co., No. 1	Spring Valley	2	345	3.6	do	do	do	M	do..	235,573
7	Spring Valley C. Co., No. 5	do	2	420	3.6	do	do	do	do	do..	229,141
8	Ed Donahue.....	Sheffield.....	6	75	4.6	do	Ho	P-R	Hd	do..	6,890
9	William Brandt.....	Mineral.....	6	35	4.6	do	do	do	do	do..	5,980
10	Nelson & Scott.....	Sheffield.....	6	20	4.6	do	do	do	do	do..	5,766
11	William Smith.....	Princeton.....	6	150	4.6	do	do	do	do	do..	2,600
12	A. G. Norien.....	Sheffield.....	6	48	4.6	do	do	do	do	do..	2,442
13	Thos. Herrington.....	Princeton.....	6	145	4.6	do	do	do	do	do..	2,066
14	John Duncan.....	Sheffield.....	6	40	4.6	do	do	do	do	do..	1,504
15	James Kimmerling.....	do	6	45	4.6	do	St.	do	do	do..	1,210
16	George Heathcock.....	Princeton.....	6	200	4.6	do	Ho	do	do	do..	1,082
17	A. W. Walton.....	do	6	150	4.0	do	do	do	do	do..	894
18	C. W. Riley.....	Sheffield.....	6	70	4.0	do	do	do	do	do..	800
19	J. P. Nelson.....	do	6	42	4.6	do	do	do	do	do..	720
20	Chas Gatheridge.....	do	6	50	4.6	do	do	do	do	do..	420
21	E. B. Goldsmith.....	do	6	50	4.6	do	do	do	do	do..	408
	21 mines.....										1,751,875

## CALHOUN COUNTY.

1	Thomas Press Brick Co....	Golden Eagle	1	60	2.4	Dr.	Ho	P-R.	M...	Hd..	2,880
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**Table 88—Continued.**

**FULTON COUNTY.**

Number.	NAME OF OPERATOR.	Postoffice address of mine.	Geological number of seam.	PHYSICAL CHARACTER OF MINE.							Total tons.
				Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haillage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Maplewood Coal Co., No. 1	Peoria	85	4.4	Sh.	St.	P. R.	M.	Hd.	235, 948	
2	Monmouth Coal Co., No. 1	Brereton	80	4.3	do	do	do	do	do	214, 123	
3	Whitebreast F. Co. of Ill., E	Dunfermline.	85	5.0	do	do	do	do	do	158, 500	
4	Big Creek Coal Co., No. 2	St. David.	85	5.0	Dr.	do	do	E.	do	132, 982	
5	Norris Coal Mining Co.	Norris.	185	4.6	Sh.	do	do	M.	do	106, 000	
6	Applegate & Lewis.	Cuba	90	4.6	do	do	do	C.	do	89, 000	
7	Newsam Bros.	Peoria	90	4.4	do	do	do	E.	do	66, 554	
8	Whitebreast Fuel Co. of Ill.	St. David.	90	5.0	do	do	do	M.	do	63, 710	
9	Kast Cuba Coal Co.	Cuba	85	4.6	do	do	do	do	do	61, 240	
10	Maplewood Coal Co., No. 2	Peoria	92	4.4	do	do	do	do	do	49, 999	
11	Big Creek Coal Co., No. 1	St. David.	45	5.0	do	do	do	do	do	40, 808	
12	Foley Coal Co., No. 1.	Canton	100	5.0	do	do	do	C.	do	40, 225	
13	Canton Union Coal Co.	do	85	5.0	Sl.	do	do	C.	do	31, 400	
14	Spoon River Coal Co.	do	45	2.6	Sh.	do	do	M.	do	25, 064	
15	Farmington Coal Co.	Farmington	145	4.4	do	do	do	do	do	14, 449	
16	Monarch Coal & Min. Co.	Monmouth.	82	4.2	do	do	do	do	do	12, 402	
17	Essex & Fritz C. Co. No. 1.	Galesburg	85	5.0	Sl.	St.	P. R.	M.	Hd.	11, 200	
18	J. Riley.	Breeds	70	4.4	Dr.	do	do	do	do	8, 960	
19	Putnam Coal Co.	Cuba	60	5.0	do	St.	do	do	do	8, 640	
20	Essex & Fritz C. Co. No. 2.	Galesburg.	70	5.0	do	Ho	do	do	do	8, 400	
21	Canton Coal Co.	Canton	do	do	do	do	do	do	do	17, 000	
22	Standard Coal Co.	do	do	do	do	do	do	do	do	11, 300	
23	Wm. Roddis.	Ipava	22	4.0	Sh.	Ho	do	M.	Hd.	3, 000	
24	Joe McLaughlin	Canton.	55	5.0	Dr.	do	do	do	do	2, 910	
25	Westerfield & Co.	do	25	5.0	Sl.	St.	do	do	do	2, 900	
26	W. E. Andrews.	do	24	5.0	Sh.	Ho	do	do	do	2, 900	
27	A. M. Everly	do	17	5.0	do	do	do	do	do	2, 850	
28	A. J. Gunnett.	Fairview	25	5.0	Dr.	Hd.	do	Hd.	do	2, 825	
29	McBroom Bros	Canton	45	5.0	Sl.	Ho	do	do	do	2, 800	
30	Stokes & Lee	do	32	5.0	Sh.	Ho	do	M.	do	1, 960	
31	Joseph Wilson.	Astoria	25	5.0	Sl.	do	do	do	do	1, 620	
32	Temple Geiselman	St. David.	20	5.0	do	do	do	do	do	1, 120	
33	E. P. Moran	Fairview	60	5.0	do	Hd	do	do	do	1, 120	
34	R. E. Gould & Co	St. David.	24	5.0	Dr.	Ho	do	do	do	800	
35	L. R. Snider.	Canton.	25	5.0	Sl.	do	do	do	do	700	
36	Martin & Son.	do	54	5.0	Dr.	do	do	do	do	700	
37	Murphey & Son.	Fairview	30	5.0	do	Hd	do	do	do	620	
38	Jacob Cleary	Ipava	25	5.0	Sl.	St.	do	do	do	600	
39	D. S. Mayall.	Cuba	25	5.0	Dr.	Ho	do	do	do	480	
40	Robert Robey	St. David.	30	5.0	do	do	do	do	do	280	
41	Wm. Jordan.	Fairview	5	18	5.0	do	Hd	do	do	290	
42	L. W. Davis.	do	5	20	5.0	do	do	do	do	220	
43	T. H. Travis.	St. David.	5	26	5.0	do	do	do	do	200	
44	Abraham Bath	do	5	26	5.0	do	do	do	do	150	
45	Little Black Diamond	Farmington	6	35	5.0	Sh.	St.	do	do	120	
46	Martin & Peterson	Canton.	5	30	5.0	Dr.	Ho	do	do	120	
47	H. B. Doyle	Norris.	6	35	5.0	Sh.	do	do	do	120	
48	George Prowl.	Fairview	5	30	5.0	Dr.	do	do	do	110	
49	Surprise Coal Co.	Astoria	5	25	5.0	do	do	do	do	100	
50	W. H. James	Fairview	5	25	5.0	do	do	do	do	80	
Fifty mines.....											1, 439, 498

Table 88—Continued.

**GALLATIN COUNTY.**

[illegible]

GREENE COUNTY.

[illegible]

GRUNDY COUNTY.

[illegible]



Table 88—Continued.

## HAMILTON COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	John C. Harper .....	Flint .....	1	61	6	1.6	St. ....	.....	.....	.....	200

**HANCOCK COUNTY.**

1	Meredith Bros.....	Augusta.....	2	50	2.6	Dr.	Ho	P. R..	M....	Hd ..	8,500
2	C. H. Ellis .....	.do	2	35	2.6	.do	.do	.do	Hd ..	.do .	1,500
3	L. Bennett .....	.do	2	30	2.6	.do	.do	.do	.do	.do .	650
4	S. Jones .....	.do	35	2.6	.do	.do	.do	.do	.do	.do .	500
5	Geo. Wiley .....	.do	2	32	2.6	.do	.do	.do	.do	.do .	410
	5 mines.....	.....									11,560

## HENRY COUNTY.

[illegible]

**Table 88—Continued.**

**JACKSON COUNTY.**

[illegible]

**JEFFERSON COUNTY.**

[illegible]

**JERSEY COUNTY.**

[illegible]

**KNOX COUNTY.**

Table 88—Continued.

**LASALLE COUNTY.**

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	LaSalle Co. Carb. Coal Co., No. 1.	LaSalle.....	2	440 3.6	Sh.	St.	L.W.	M	Hd	178,681	
2	LaSalle Co. Carb. Coal Co., Union	do.....	2	375 3.6	do	do	do	do	do	162,602	
3	Oglesby Coal Co., No. 1	Oglesby.....	2	464 3.6	do	do	do	M. E.	do	148,552	
4	LaSalle Co. Carb. Coal Co., LaSalle	LaSalle.....	2	392 3.6	do	do	do	M	do	147,750	
5	LaSalle Co. Carb. Coal Co., Rockwell	do.....	2	390 3.6	do	do	do	do	do	137,665	
6	Acme Coal Co., Acme	Streator.....	7	110 6.6	do	do	P-R	M. C.	do	137,046	
7	Star Coal Co., No. 5	do.....	7	66 5.0	do	do	do	M	do	136,687	
8	Chi., Wil. & Ver. Coal Co., No. 1	do.....	2	212 3.0	do	do	L.W.	do	do	127,966	
9	M. & H. Zinc Co.	LaSalle.....	5	310 4.6	do	do	P-R	do	do	101,685	
10	Illinois Zinc Co., No. 1	Peru.....	2	130 3.0	Dr.	do	L.W.	M. C.	do	77,558	
11	Chi., Wil. & Ver. Coal Co., No. 2	Streator.....	2	245 3.6	Sh.	do	do	M	do	72,847	
12	James Cahill Est., No. 1	Peru.....	2	350 3.0	do	do	do	do	do	69,600	
13	Mrs. E. Hakes, No. 2	Rutland.....	7	500 2.9	do	do	do	do	do	62,338	
14	Home Coal Co., No. 1	Streator.....	7	87 5.0	do	do	P-R	do	do	31,854	
15	Marseilles C. M. Co., No. 1	Marseilles.....	2	120 2.10	do	do	L.W.	do	do	24,721	
16	Star Coal Co., No. 4	Streator.....	2	200 3.0	do	do	do	do	do	19,463	
17	N. Wilm't'n Coal Co., No. 1	Seneca.....	2	112 3.0	do	do	do	do	do	11,169	
18	Louis Evans & Son, No. 1	Kangley.....	7	25 4.0	Sh.	Ho	P-R	do	do	9,000	
19	Mertz Bros., No. 1	Streator.....	7	61 4.0	Sh.	do	do	do	do	5,952	
20	Joe Sawyer & Co., No. 1	do.....	7	30 4.0	Dr.	St.	do	do	do	5,263	
21	Ed. Evans & Co., No. 1	do.....	7	32 4.0	Sh.	Ho	do	Hd	do	4,000	
22	Wm. G. Francis, No. 1	do.....	7	48 5.0	Sh.	St.	do	M	do	3,160	
23	Evans Bros., No. 2	do.....	7	60 5.0	Sh.	Ho	do	Hd	do	3,086	
24	Haar Bros., No. 2	do.....	7	40 4.6	do	do	do	do	do	3,000	
25	Mathew White, No. 1	Ottawa.....	2	30 2.8	do	do	do	do	do	2,250	
26	Nelson & Stokes	Streator.....	7	14 5.0	do	do	do	do	do	2,108	
27	William McMillen	do.....	7	34 5.0	do	do	do	do	do	2,084	
28	Oscar Kimes	do.....	7	30 4.0	Dr.	do	do	do	do	1,700	
29	William Voight	Leonore.....	2	75 3.0	Sh.	do	do	do	do	1,500	
30	William Bottomley	Lowell.....	2	50 3.0	do	do	do	do	do	815	
31	William Mertz	Ottawa.....	2	65 2.4	Dr.	do	do	do	do	800	
32	John McNeil	Kangley.....	7	75 8.0	Sh.	do	do	do	do	700	
33	Farmers' Fuel Co., No. 1	Streator.....	7	112 9.0	do	St.	do	Hd	M	566	
34	Fred Brooker	Lowell.....	2	60 3.0	do	Ho	do	do	Hd	525	
35	L. D. Morse	do.....	2	55 3.0	do	do	do	do	do	350	
36	Adam Crompton	Ottawa.....	2	45 3.4	Dr.	Hd	do	do	do	300	
37	L. D. Brewer	do.....	2	55 3.4	do	do	do	do	do	250	
38	George Steele	do.....	2	60 3.4	do	do	do	do	do	225	
39	Charles Hepp	do.....	2	50 3.4	do	do	do	do	do	200	
40	James McCullough	do.....	2	60 3.4	do	do	do	do	do	200	
41	Howell & Baker	do.....	2	50 3.4	do	do	do	do	do	180	
42	Charles Hendee	do.....	2	50 3.4	do	do	do	do	do	125	
43	Ringer & Hostetter	do.....	2	50 3.4	do	do	do	do	do	125	
44	Daniel Vazaine	do.....	2	60 2.4	do	do	do	do	do	125	
45	Lockwood & Dietman	Streator.....	2	45 3.0	Sh.	do	do	do	do	125	
45 mines.....											1,696,853

## STATISTICS OF LABOR.

**Table 88—Continued.**

**LIVINGSTON COUNTY.**

[illegible]

**LOGAN COUNTY.**

[illegible]

**MACON COUNTY.**

[illegible]

Table 88—Continued.

## MACOUPIN COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.									Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.		
1	Illinois Collieries Co. No. 1.	Virđen .....	5	320	7.6	Sh.	St.	P-R	E	M	340,736	
2	Superior Coal Co. No. 1.	Gillespie .....	5	348	8.0	do	do	do	C	do	282,711	
3	Consolidated Coal Co. No. 6	Staunton .....	5	322	6.0	do	do	do	do	do	219,826	
4	Consolidated C. Co. No. 10.	Mt. Olive .....	5	431	8.0	do	do	do	E	do	210,837	
5	Consolidated Coal Co. No. 8	do .....	5	410	8.0	do	do	do	do	do	204,161	
6	Superior Coal Co. No. 2.	Gillespie .....	5	324	8.0	do	do	do	M	do	201,127	
7	Madison Coal Co. No. 5.	Mt. Olive .....	5	435	8.0	do	do	do	do	do	172,764	
8	Consolidated Coal Co. No. 7	Staunton .....	5	360	6.8	do	do	do	do	do	169,657	
9	Royal Colliery .....	Virđen .....	5	348	7.6	do	do	do	do	H	160,563	
10	Greenridge Mining Co.	Greenridge .....	5	350	6.4	do	do	do	do	Hd	140,229	
11	Illinois Colliers' Co. No. 5.	Virđen .....	5	354	6.6	do	do	do	do	do	123,735	
12	Consol. Coal Co. No. 14.	Staunton .....	5	284	6.6	do	do	do	do	M	119,435	
13	Carlinville Coal Co.	Carlinville .....	5	290	6.0	do	do	do	do	Hd	56,850	
14	Consolidated Coal Co.	Gillespie .....	5	335	7.0	do	do	do	do	M	37,928	
15	Illinois Colliers' Co. No. 4.	Virđen .....	5	320	7.6	do	do	do	do	Hd	34,637	
16	Codsolidated Coal Co.	Hornsby .....	5	388	6.6	do	do	do	do	M	28,539	
17	Consol. Coal Co. No. 15.	Mt. Olive .....	5	320	7.0	do	do	do	do	do	11,069	
18	William Neil & Co.	Bunker Hill .....	5	250	5.6	do	do	do	do	do	5,611	
19	Davis Bros.	Chesterfield .....	Pkt	60	Pkt	do	Ho	do	H	Hd	2,426	
20	W. H. A. Bodi	do .....	do	30	do	Sl.	Hd	do	do	do	1,600	
21	Fred Luekings	Brighton .....	5	60	5.6	Sh	Ho	do	do	do	1,522	
22	Bouser & Truesdale	Bunker Hill .....	5	245	5.6	do	St.	do	do	do	1,500	
23	Fritz T. Jordan	do .....	5	240	5.6	do	Ho	do	do	do	1,080	
24	G. B. Loper	Chesterfield .....	Pkt	52	Pkt	do	do	do	do	do	983	
25	James Harbaugh	do .....	do	50	do	do	do	do	do	do	720	
26	Wm. Hickey	do .....	do	30	do	do	do	do	do	do	482	
27	H. S. Duggen	Scottsville .....	do	30	Pkt	Dr.	Hd	do	do	do	112	
27 mines.			.....	.....	.....	.....	.....	.....	.....	.....	2,530,840	

## MADISON COUNTY.

1	Donk Bros. C. & C. Co. No. 2	Collinsville...	6	245	7.0	Sh.	St.	P-R	M	M	329,135
2	Mt. O. & S. C. & C. Co. No. 1	Staunton.....	6	292	6.0	do	do	do	M-E	do	323,371
3	Donk Bros. C. & C. Co. No. 1	Collinsville.....	6	135	7.0	do	do	do	do	H	315,091
4	Donk Bros. C. & C. Co. No. 3	Troy.....	6	280	5.0	do	do	do	do	do	290,793
5	Lumaghi Coal Co. No. 2.	Collinsville.....	6	170	7.0	do	do	do	M	M	225,277
6	Madison Coal Co. No. 4.	Glen Carbon.....	6	130	7.0	do	do	do	do	do	215,276
7	Madison Coal Co. No. 2.	do.....	6	110	6.6	do	do	do	do	do	212,840
8	Consolidated Coal Co. No. 3	Collinsville.....	6	146	7.0	do	do	do	do	do	144,527
9	Consolidated Coal Co.	do.....	6	168	7.0	do	do	do	do	do	143,297
10	Mt. Olive & S. Coal Co. No. 2	Staunton.....	6	300	6.0	do	do	do	do	do	142,673
11	Kerns-D. Coal Co. No. 1.	Worden.....	6	270	7.0	do	do	do	do	do	135,910
12	Edwardsville Coal Co. No. 3	Edwardsville.....	6	217	6.0	do	do	do	do	do	114,966
13	DeCamp Mining Co. No. 1	Staunton.....	6	183	5.0	do	do	do	do	do	100,972
14	Lumaghi Coal Co. No. 3.	Collinsville.....	6	165	7.0	do	do	do	do	do	98,641
15	Henrietta Coal Co. No. 1.	Edwardsville.....	6	180	6.0	do	do	do	do	do	52,471
16	New Staunton C'l Co. No. 1	Staunton.....	6	287	6.0	do	do	do	do	do	35,155
17	Consolidated Coal Co.	Troy.....	7	278	5.0	do	do	do	do	Hd	32,262
18	Inter-State Coal & Min. Co.	Worden.....	6	275	6.0	do	do	do	do	M	18,485
19	Home Trade Coal Co.	Edwardsville.....	6	131	4.0	do	do	do	do	Hd	17,478
20	Abbey Coal Co.	Collinsville.....	6	200	6.0	do	do	do	do	do	8,460
21	Bullock Bros.	do.....	6	170	6.0	do	do	do	do	do	6,759
22	Consolidated C'l Co. No. 17	do.....	6	236	7.0	do	do	do	do	do	4,607

**Table 88—Continued.**

**MADISON COUNTY—*Concluded.***

[illegible]

**MARION COUNTY.**

[illegible]

**MARSHALL COUNTY.**

[illegible]

Table 88—Continued.

## McDONOUGH COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Rippetoe & Rundel.....	Colchester.....	22	60	2.6	Sh.	St.	P.-R.	Dog.	Hd.	7,598
2	Burney & Co.....	do.....	40	2.6	Sl.	do	do	do	do	do	4,582
3	Atchinson Bros.....	do.....	30	2.4	Dr.	Hd.	do	do	do	do	1,726
4	John Wilson.....	do.....	60	2.4	Sh.	Ho	do	do	do	do	1,669
5	Ralph Oldham.....	do.....	78	2.4	do	do	do	do	do	do	1,527
6	Roger Williams.....	do.....	40	2.4	Dr.	Hd.	do	do	do	do	1,400
7	Charles Atkinson.....	do.....	96	2.4	Sh.	Ho	do	do	do	do	1,131
8	Michael Hume.....	do.....	36	2.4	Dr.	Hd.	do	do	do	do	1,000
9	John Reeder.....	do.....	30	2.4	do	do	do	do	do	do	998
10	Thomas Wilson.....	Blandinsville.....	55	2.4	Sh.	Ho	do	Hd.	do	do	960
11	Cooper & Stone.....	Colchester.....	40	2.4	Dr.	Hd.	do	Dog.	do	do	958
12	William Whalen.....	do.....	36	2.4	do	do	do	do	do	do	860
13	William Jones.....	do.....	40	2.4	do	do	do	do	do	do	830
14	John C. Kirkbride.....	Vermont.....	30	2.4	do	do	do	Hd.	do	do	828
15	William H. Robinson.....	Colchester.....	58	2.4	Sh.	Ho	do	Dog.	do	do	782
16	William Kipling.....	do.....	36	2.4	Dr.	Hd.	do	do	do	do	700
17	Marion McClure.....	do.....	40	2.4	do	do	do	do	do	do	651
18	Waddle Bros.....	Tennessee.....	45	2.4	do	do	do	Hd.	do	do	640
19	Hudson & Kipling.....	Colchester.....	40	2.4	do	do	do	do	do	do	628
20	Frank Burdick.....	Industry.....	28	2.4	Sh.	Ho	do	do	do	do	612
21	Joseph Burgard.....	Vermont.....	30	2.4	Dr.	Hd.	do	do	do	do	600
22	John Pearson.....	Colchester.....	42	2.4	do	do	do	Dog.	do	do	600
23	George W. Foster.....	do.....	38	2.4	do	do	do	do	do	do	600
24	John Betson.....	do.....	30	2.4	do	do	do	do	do	do	600
25	Lanon Bowman.....	Industry.....	30	2.4	Sh.	Ho	do	Hd.	do	do	585
26	William Edington.....	Macomb.....	25	2.4	Dr.	Hd.	do	do	do	do	580
27	Wayland Bros.....	Colchester.....	35	2.4	do	do	do	do	do	do	580
28	Lewis Lewis.....	do.....	52	2.4	Sh.	Ho	do	do	do	do	560
29	Bert Creecy.....	do.....	50	2.4	Sl.	do	do	do	do	do	532
30	Reynolds & Lowery.....	do.....	36	2.4	Dr.	Hd.	do	do	do	do	484
31	Joseph Hunt.....	do.....	30	2.4	do	do	do	do	do	do	440
32	Jackson Gilligan.....	Industry.....	35	2.4	do	do	do	do	do	do	400
33	Clay Nudd.....	LaHarpe.....	40	2.4	Sh.	Ho	do	do	do	do	400
34	Sam Oldham.....	Colchester.....	36	2.4	Dr.	Hd.	do	do	do	do	376
35	Taylor & Bixson.....	Blandinsville.....	40	2.4	Sh.	Ho	do	do	do	do	360
36	Eli Hilliard.....	Colchester.....	45	2.4	do	do	do	do	do	do	320
37	Ora Barrett.....	do.....	40	2.4	Dr.	Hd.	do	do	do	do	320
38	Andrew Swanson.....	do.....	36	2.4	Dr.	do	do	do	do	do	296
39	F. M. Haines.....	do.....	30	2.4	do	do	do	do	do	do	288
40	John Berry.....	do.....	30	2.4	Sh.	Ho	do	do	do	do	280
41	William Baker.....	Macomb.....	35	2.4	Dr.	Hd.	do	Hd.	do	do	280
42	Willis Stoneking.....	Birmingham.....	30	2.4	do	do	do	do	do	do	256
43	Jasper Waller.....	Colchester.....	36	2.4	do	do	do	do	do	do	240
44	Hanson & Hunter.....	Macomb.....	30	2.4	Sh.	Ho	do	do	do	do	240
45	J. E. Smith.....	Colchester.....	30	2.4	Dr.	Hd.	do	do	do	do	240
46	Henry Riggins.....	Macomb.....	35	2.4	do	do	do	do	do	do	220
47	George McIntire.....	Industry.....	30	2.4	do	do	do	do	do	do	210
48	Andrew Newneker.....	Bushnell.....	40	2.4	Sl.	Ho	do	do	do	do	200
49	Alla Voters.....	Colchester.....	40	2.4	Dr.	Hd.	do	do	do	do	200
50	W. B. Davidson.....	do.....	35	2.4	do	do	do	do	do	do	200
51	Lee McClure.....	do.....	30	2.4	do	do	do	do	do	do	200
52	Walter Mitchell.....	Vermont.....	38	2.4	do	do	do	do	do	do	180
53	Nelson & Harper.....	Colchester.....	40	2.4	do	do	do	do	do	do	172
54	King & Peck.....	do.....	36	2.4	do	do	do	do	do	do	160
55	Hoar & Foster.....	do.....	40	2.4	do	do	do	do	do	do	160
56	Richard Laity.....	do.....	30	2.4	do	do	do	do	do	do	156
57	Walter Upham.....	do.....	35	2.4	do	do	do	do	do	do	143
58	George Polonus.....	do.....	32	2.4	do	do	do	do	do	do	140
59	Atkinson & Dunbar.....	do.....	40	2.4	do	do	do	do	do	do	139



*Table 88—Continued.*

**MCDONOUGH COUNTY—Concluded.**

[illegible]

MCLEAN COUNTY.

[illegible]

\* Two seams.

**MENARD COUNTY.**

[illegible]



Table 88—Continued.

## PEORIA COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.								Total tons.
			Geological seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Holisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Clark Coal & Coke Co., A.	Peoria.....	5	105	4.2	Sh.	St.	P-R.	F.	Hd.	125,120
2	Walschlag Coop. C. Co.	do.....	5	150	4.4	Dr.	do	do	M.	do	84,900
3	Newsam Bros.	do.....	5	90	4.4	Sh.	do	do	do	do	82,989
4	Sholl Bros. No. 3.	do.....	5	80	4.4	do	do	do	C.	do	70,187
5	Collier Cooperative C. Co.	Bartonville....	5	180	4.4	do	do	do	M.	do	56,200
6	Newsam Bros.	Peoria.....	5	90	4.4	Sl.	do	do	C.	do	58,339
7	Howorth & Taylor	Edwards.....	5	120	4.2	Dr.	do	do	F.	do	54,066
8	Vickery Bros.	Peoria.....	5	75	4.4	do	do	do	M.	do	41,000
9	Central Coal & Coke Co.	Elmwood.....	5	120	3.6	Sh.	do	do	do	do	32,642
10	Clark Coal & Coke Co., B.	Peoria.....	5	90	4.4	do	do	do	do	do	31,333
11	Isaac Wantling & Son	do.....	5	90	4.4	Dr.	do	do	do	do	29,000
12	Reentz Bros.	Kramm.....	5	80	4.0	do	M.	do	do	do	26,000
13	W. E. Foley.	Mapleton.....	5	80	4.6	do	St.	do	do	do	21,887
14	Winters Coop. C. Co. No. 1	Bartonville....	5	100	5.0	Sl.	do	do	do	do	20,000
15	Treasure Coal Co.	do.....	5	80	5.0	h.	do	do	do	do	19,833
16	German Coal Co.	Mapleton.....	5	100	4.6	Dr.	do	do	do	do	14,312
17	Jas. Walker.	do.....	5	100	4.4	do	do	do	do	do	10,000
18	Orchard Mines	do.....	5	100	4.4	do	do	L-W	do	do	9,977
19	Hibbard & Snedden	Peoria.....	5	80	4.6	do	do	P-R.	do	do	9,100
20	Peter Grant & Son	do.....	5	106	4.2	Sh.	do	do	do	do	8,039
21	Newsam Bros.	do.....	5	250	4.2	do	do	do	do	do	7,527
22	F. P. Schmidt & Son	Bartonville....	5	120	5.0	Sl.	do	do	do	do	7,046
23	Winters Coop. C. Co. No. 2	do.....	5	120	5.0	Sl.	do	do	do	do	7,000
24	Ball Coal Co.	do.....	5	100	5.0	do	do	do	do	do	5,366
25	George Keller & Sons	do.....	5	65	5.0	do	do	do	do	do	5,354
26	Reeve & Galloway	Kingst'n Mine	5	70	5.0	Dr.	M.	do	do	do	4,957
27	Cusack & Edwards.	Edwards.....	5	100	3.8	do	St.	do	do	do	4,760
28	Patrick Martin	Peoria.....	5	50	5.0	Sh.	do	do	do	do	4,400
29	Sanders & Son	Glasford.....	5	100	5.0	Dr.	Ho	do	do	do	4,000
30	Mohn Coal Co.	Peoria.....	5	82	5.0	Sh.	St.	do	do	do	3,600
31	Hanover Mining Co.	do.....	5	70	5.0	do	do	do	do	do	3,517
32	A. W. Higbee.	Princeville....	5	100	4.6	do	do	do	do	do	3,500
33	Limestone Coal Co.	Peoria.....	5	85	4.6	do	do	do	do	do	2,674
34	Walter Robinson.	Mapleton.....	5	80	5.0	Dr.	Ho	do	do	do	2,500
35	White Coal Co.	Peoria.....	5	195	5.0	do	do	do	do	do	2,305
36	J. Staton.	Mapleton.....	5	130	5.0	do	do	do	do	do	2,000
37	R. Taylor.	Princeville....	5	80	4.6	Sh.	St.	do	do	do	2,000
38	Wantling & Burdett	Pottstown....	5	100	4.0	Dr.	Ho	do	do	do	1,980
39	Bell Coal Co.	Peoria.....	5	120	5.0	do	do	do	do	do	1,480
40	Crew Bros.	Chillicothe....	5	80	4.0	do	do	do	do	do	1,400
41	Hand & Ash	Laura.....	5	40	4.6	Sh.	do	do	do	do	1,320
42	Joseph Marie	Peoria.....	5	100	4.0	Dr.	do	do	do	do	1,304
43	Hess Coal Co.	do.....	5	92	4.6	Sl.	do	do	do	do	1,200
44	Fisher & Block.	do.....	5	100	4.6	do	do	do	do	do	1,200
45	Louis & Berry	do.....	5	100	4.6	do	do	do	do	do	1,000
46	C. W. Wright	Chillicothe....	5	100	4.0	Dr.	do	do	do	do	1,000
47	F. Taylor.	Elmwood.....	5	60	4.6	Sh.	do	do	do	do	980
48	L. Hearst.	Bartonville....	5	25	5.0	Sl.	do	do	do	do	960
49	Will Berry	Monica.....	5	40	4.6	Sh.	do	do	do	do	950
50	W. Poole.	Edwards.....	5	30	4.0	Sl.	do	do	do	do	800
51	Tulley & Heaton	Brimfield.....	5	40	5.0	Sh.	do	do	do	do	732
52	Schott & Witheral	Edwards.....	5	40	5.0	do	do	do	do	do	600
53	A. Johnson.	Hanna City....	5	50	4.6	Dr.	do	do	do	do	600
54	J. Swinenger	Peoria.....	5	140	4.6	do	do	do	do	do	600
55	Fair Oak Coal Co.	do.....	5	90	5.0	Sh.	St.	do	do	do	542
56	A. A. Hammet.	Chillicothe....	5	100	4.0	Dr.	Ho	do	do	do	500
57	J. Dempster	Peoria.....	5	140	4.6	Sl.	do	do	do	do	500
58	R. Culberson.	Brimfield.....	5	40	4.6	Sh.	do	do	do	do	480
59	R. Clarkson.	Oak Hill.....	5	30	4.6	Dr.	Hd.	do	do	do	400

Table 88—Continued.

## PEORIA COUNTY—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.										Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.			
60	H. A. Bement.....	Oak Hill.....	6	30	4.6	Dr.	Hd	P.-R.	M	Hd	400		
61	Powell & Hoeppel.....	Mapleton.....	6	150	5.0	Sl.	Ho	do	do	do	400		
62	D. Roberts.....	do.....	5	125	5.0	Dr.	Hd	do	do	do	400		
63	M. Rumble.....	Peoria.....	5	100	5.0	do	do	do	do	do	390		
64	J. Dalton.....	Elmwood.....	6	45	5.0	Sh.	Ho	do	do	do	380		
65	J. Green.....	Hanna City.....	6	80	4.6	Sl.	do	do	do	do	375		
66	D. H. Curran.....	Oak Hill.....	6	50	4.6	Dr.	do	do	do	do	320		
67	J. Birdus.....	Peoria.....	5	130	4.6	do	do	do	do	do	320		
68	J. Rook.....	Brimfield.....	6	40	4.6	do	do	do	do	do	310		
69	Third Vein Coal Co., No. 2.	Mapleton.....	5	100	4.6	do	do	do	do	do	302		
70	J. Gooden.....	do.....	5	130	4.6	do	do	do	do	do	300		
71	Black Bros.....	do.....	5	75	4.6	do	do	do	do	do	280		
72	Clark & Rook.....	Brimfield.....	6	30	4.6	Sh.	do	do	do	do	280		
73	Mike Cluskey.....	do.....	6	50	4.6	do	do	do	do	do	250		
74	T. Jones.....	Peoria.....	5	100	5.0	Sl.	do	do	do	do	210		
75	T. Dawson.....	Hanna City.....	6	30	4.6	Dr.	do	do	do	do	200		
76	Ed Seigee.....	Oak Hill.....	6	50	4.6	do	do	do	do	do	200		
77	Harris & Son.....	Hanna City.....	6	60	4.6	Sh.	do	do	do	do	200		
78	J. Saunders.....	Monica.....	6	40	4.6	Sl.	do	do	do	do	180		
79	W. Englekey.....	Peoria.....	5	110	4.6	Dr.	do	do	do	do	150		
80	Ed. Slam.....	Oak Hill.....	6	40	4.6	do	do	do	do	do	120		
81	T. Bohannan.....	Hanna City.....	6	50	4.6	do	do	do	do	do	100		
82	John Richigan.....	Mapleton.....	5	12	5.0	Sl.	do	do	do	do	80		
83	B. Wolford.....	Hanna City.....	6	30	4.6	Dr.	do	do	do	do	40		
84	R. Armfield.....	do.....	6	25	4.6	do	do	do	do	do	40		
85	J. Scott.....	Oak Hill.....	6	40	4.6	do	do	do	do	do	38		
86	S. B. Wasson.....	Laura.....	6	30	4.6	do	do	do	do	do	39		
87	S. Harper.....	Hanna City.....	6	30	4.6	do	do	do	do	do	36		
87 mines.....											904,892		

## PERRY COUNTY.

1	Willis Coal Min. Co. No. 1	Willisville.....	6	80	6.0	Sh.	St.	P.-R.	E....	H-M	241,474	241,474
2	White Walnut Coal Co.....	Pinckneyville.....	6	90	6.0	do	do	do	M....	Hd	208,873	208,873
3	Mo. & Ill. Coal Co. No. 4.....	Willisville.....	6	82	6.0	do	do	do	do	do	127,499	127,499
4	Queen City Mining Co.....	Duquoin.....	6	30	6.0	do	do	do	do	do	88,600	88,600
5	Manuf'rs' F'l Co. Jup. No. 1.....	do.....	6	55	6.0	do	do	do	do	do	74,969	74,969
6	Lake Sup'r C. C. Pope Min. Co.....	do.....	6	44	6.0	do	do	do	do	do	67,605	67,605
7	Greenwood-Davis Coal Co.....	do.....	6	38	6.0	do	do	do	do	do	54,850	54,850
8	Manuf'rs' F'l Co. Jup. No. 2.....	do.....	6	55	6.0	do	do	do	do	do	46,289	46,289
9	EQUITABLE C. Co., Majestic.....	do.....	6	400	9.0	do	do	do	do	do	44,402	44,402
10	West Muddy Coal Co.....	Coulterville.....	6	275	6.0	do	do	do	do	do	41,476	41,476
11	Bailey Bros. Coal Co. No. 3.....	Sunfield.....	6	80	6.0	do	do	do	do	do	36,991	36,991
12	Soper & Co., Bernard.....	Cutler.....	6	122	6.0	do	do	do	do	do	36,285	36,285
13	Eaton Fuel Co., Black Dmd.....	Duquoin.....	6	80	5.6	do	do	do	do	do	33,944	33,944
14	Little Muddy Coal Co.....	Tamaroa.....	6	220	5.6	do	do	do	do	do	28,248	28,248
15	New Moon Mining Co.....	Duquoin.....	6	....	6.5	do	do	do	do	do	24,613	24,613
16	Morris Bros.....	do.....	6	40	6.0	do	do	do	do	do	24,512	24,512
17	Forester Coal & Coke Co.....	do.....	6	374	9.0	do	do	do	do	do	18,884	18,884
18	DuQuoin-Pittsb'g Coal Co.....	do.....	6	80	7.0	do	do	do	E....	do	17,992	17,992
19	Manuf'rs' F'l Co. Jup. No. 3.....	do.....	6	55	6.0	do	do	do	M....	do	14,983	14,983
20	M. H. Wilson.....	do.....	6	35	6.0	do	do	do	do	do	12,000	12,000
21	Strait Coal Co.....	Pinckneyville.....	6	86	6.0	do	do	do	do	do	9,718	9,718

Table 88—Continued.

**PERRY COUNTY—Concluded.**

[illegible]

PUTNAM COUNTY.

1	St. Paul Coal Co. No. 1....	Granville .....	2	485	3.0	Sh.	St..	L-W.	M ...	Hd ..	42,964
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**RANDOLPH COUNTY.**

[illegible]

ROCK ISLAND COUNTY.

[illegible]

*Table 88—Continued.*

**SALINE COUNTY.**

[illegible]

**SANGAMON COUNTY.**

[illegible]

Table 88—Continued.

**SCHUYLER COUNTY.**

[illegible]

**SCOTT COUNTY.**

[illegible]

**SHELBY COUNTY.**

STARK COUNTY.

[illegible]



Table 88—Continued.

## ST. CLAIR COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	St. Louis & O'Fallon Coal Co. No. 1	East St. Louis.	6	100	6.0	Sh.	St.	P. R.	M.	Hd.	389,308
2	Muren C. & I. Co. No. 1	Belleville	6	180	6.0	do	do	do	do	M.	159,944
3	Superior C. & Min. Co. No. 1	do	6	186	6.0	do	do	do	do	M.	158,116
4	Royal C. & Min. Co. No. 1	do	6	190	7.0	do	do	do	do	Both.	149,550
5	Jos. Taylor C. Co. Ridge P.	O'Fallon	6	210	7.0	do	do	do	do	Hd.	139,196
6	Jos. Taylor C. Co. Taylor P.	do	6	200	7.0	do	do	do	do	do	131,364
7	Walnut Hill C. Co. Avery	do	6	200	7.0	do	do	do	do	M.	129,798
8	Crown C. & I. Co. No. 4	do	6	185	7.0	do	do	do	do	Hd.	113,370
9	Glendale C. & Min. Co. No. 1	do	6	120	7.0	do	do	do	do	M.	83,609
10	Borders Coal Co. No. 1	Marissa	6	80	7.0	do	do	do	do	Hd.	82,300
11	Avery C. & M. Co. Oakland.	Belleville	6	175	7.0	do	do	do	do	M.	78,718
12	Kolb Coal Co. No. 1	Mascoutah	6	180	7.0	do	do	do	do	Hd.	78,080
13	Eureka Coal Co. No. 1	Marissa	6	114	7.0	do	do	do	do	do	74,249
14	Oak Hill Coal Co. No. 1	Belleville	6	187	7.0	do	do	do	do	M.	71,560
15	Marissa Coal & Min. Co.	Marissa	6	120	7.0	do	do	do	do	Hd.	69,778
16	Summit Coal Co. No. 1	Belleville	6	190	7.0	do	do	do	do	do	67,159
17	Consolid't'd C. Co. Green Mt.	do	6	160	7.0	do	do	do	do	M.	65,884
18	Valley Coal & Mining Co.	Mascoutah	6	113	6.0	do	do	do	do	Both	65,400
19	Joseph Taylor, St. Ellen	O'Fallon	6	210	7.0	do	do	do	do	Hd.	65,167
20	Mo. & Ill. C. Co., Rentchler	Belleville	6	130	7.0	do	do	do	do	do	57,761
21	Johnson Coal Co.	Marissa	6	120	7.0	do	do	do	do	do	56,967
22	Kolb Coal Co., Vinegar Hill	Mascoutah	6	80	7.0	do	do	do	do	do	55,751
23	Hippard Coal Co. No. 1	Belleville	6	75	7.0	do	do	do	do	M.	53,323
24	Tirre Coal & Min. Co. No. 1	Lenzburg	6	191	7.0	do	do	do	do	Hd.	50,863
25	Avery C. & M. Co., Randle	Freeburg	6	150	7.0	do	do	do	do	do	49,993
26	Hippard C. Co., Walnut Val.	Belleville	6	75	7.0	do	do	do	do	do	49,219
27	Suburban Coal Co.	do	6	180	7.0	do	do	do	do	do	44,254
28	Pittsburg Mining Co.	do	6	125	7.0	do	do	do	do	do	43,750
29	Lenz Coal & Min. Co., No. 2	do	6	200	7.0	do	do	do	do	M.	43,403
30	Sunlight Coal Co.	Freeburg	6	138	7.0	do	do	do	do	Hd.	42,072
31	Mo. & Ill. C. Co., Wilderman	Belleville	6	90	7.0	do	do	do	do	do	39,258
32	Fullerton Coal Co., Skellet.	do	6	160	7.0	do	do	do	do	do	36,800
33	Marissa C. & M. Co., Oak Rge	Marissa	6	175	6.0	do	do	do	do	do	34,816
34	Lebanon Coal & Min. Ass'n	O'Fallon	7	200	6.0	do	do	do	do	M.	34,040
35	Lake Superior C. Co., Br'nch	Belleville	6	55	6.0	do	do	do	do	Hd.	33,406
36	Highland Coal Co., No. 1	do	6	130	6.0	do	do	do	do	do	32,250
37	Mo. & Ill. Coal Co., St. Clair	do	6	123	6.0	do	do	do	do	do	29,148
38	Borders Coal Co., No. 2	Marissa	6	90	6.0	do	do	do	do	do	28,537
39	O'Fall. C. & M. Co., Darrow	O'Fallon	6	188	6.0	do	do	do	do	Both	28,015
40	Consol. Coal Co., Gartside	Belleville	6	205	6.0	do	do	do	do	M.	27,803
41	Enterprise M. Co., Rentchler	Rentchler	6	120	6.0	do	do	do	do	Hd.	26,957
42	Charles Hortman	Belleville	6	90	6.0	do	do	do	do	do	26,502
43	Herman Pfuhl	do	6	90	7.0	do	do	do	do	do	25,098
44	Breeze-Tren. M. Co., Trent'n	Trenton	7	200	5.0	do	do	do	do	M.	23,573
45	Glendale C. M. Co., No. 2	Belleville	6	150	6.0	do	do	do	do	Hd.	21,704
46	Little Oak Coal Co.	do	6	140	6.0	do	do	do	do	do	21,574
47	Consol. C. Co., Schureman	do	6	125	7.0	do	do	do	do	M.	20,381
48	Avery C. & M. Co., Advance	Marissa	6	87	7.0	do	do	do	do	Hd.	20,207
49	Lebanon C. & M. Co., Carb'n	O'Fallon	6	210	6.0	do	do	do	do	do	18,172
50	Fred Murphy	Belleville	6	60	6.0	do	do	do	do	do	18,000
51	St. Louis & O'Fallon, No. 2	East St. Louis	6	197	6.0	do	do	do	do	M.	16,976
52	Humboldt Coal & Min. Co.	Belleville	6	100	6.0	do	do	do	do	Hd.	13,776
53	Frank Sargent	do	6	70	6.0	do	do	do	do	do	13,034
54	Tower Grove Coal Co.	do	6	180	6.0	do	do	do	do	do	12,480
55	Beatty Coal Co., Shloh.	Mascoutah	6	130	6.0	do	do	do	do	M.	11,050
56	August Ebel	Belleville	6	50	6.0	do	do	do	do	Hd.	10,020
57	T. M. Meeks Coal Co.	Marissa	6	170	6.0	do	do	do	do	do	7,870
58	Bell. & O'Fallon C. & M. Co.	Belleville	6	120	6.0	do	do	do	do	do	6,660
59	Wm. Piston	Millstadt	6	14	6.0	do	Hd.	do	do	do	6,000



Table 88—Continued.

## VERMILION COUNTY.

PHYSICAL CHARACTER OF MINE.														
Number.	NAME OF OPERATOR.	Postoffice address of mine.	Geological number of seam.	Depth of coal feet and inches.	Thickness of seam - feet and inches.	PHYSICAL CHARACTER OF MINE.								Total tons.
						Shaft slope, drift.	Haulage steam, horse, hand.	Long wall, pillar and room.	Haulage - hand, mule, cable, electric.	Mine - hand, machine, both.				
1	Dering Coal Co. No. 1.....	Westville.....	6	210	7.0	Sh. St.	P. R.	M-E	Hd.			334,941		
2	Kelley Coal Co. No. 4.....	do	6	90	7.0	do	do	do	M	do		301,586		
3	Kelley Coal Co. No. 3.....	do	6	212	7.0	do	do	do	M-E	do		273,582		
4	Kelley Coal Co., Pawnee	Grape Creek	6	90	8.0	do	do	do	M-C	do		262,694		
5	Kelley Coal Co. No. 2.....	Kelleyville.....	6	210	7.0	do	do	do	M-E	do		243,002		
6	Dering Coal Co. No. 2.....	Westville.....	6	215	6.0	do	do	do	M	do		212,225		
7	Kelley Coal Co. No. 5.....	Grape Creek	6	90	7.0	do	do	do	do	do		209,780		
8	Kelley Coal Co., Himrod	Himrod	6	168	8.0	do	do	do	M-E	do		190,777		
9	Electric Coal Co.	Danville	1	100	6.0	do	do	do	M	do		105,104		
10	Chicago Collieries Co. No. 10	Catlin	6	168	6.0	do	do	do	M-E	do		74,162		
11	Consolidated C. C., Fairm't.	Fairmount	7	208	5.0	Sh. St.	P. R.	M	do	Hd.		69,056		
12	Economy C. C., Economy	Danville	7	85	6.0	do	do	do	do	do		66,769		
13	E. S. Gray Coal Co. No. 4...	Oakwood	7	95	6.0	do	do	do	do	do		40,000		
14	Oakwood C. Co., Oakwood...	do	7	80	6.0	do	do	do	do	do		20,000		
15	E. S. Gray No. 3.....	Danville	7	100	6.0	do	do	do	do	do		19,200		
16	Salt Fork Coal Co.	Missionfield	6	20	6.0	St.	St.	do	M	do		16,989		
17	J. O'Connell C. C., Blue Bird	Grape Creek	6	40	7.0	Sh.	P. R.	do	Hd.	do		16,959		
18	Mauck Bros. No. 1.....	Danville	7	100	6.0	Sl.	do	do	do	do		13,862		
19	James Parle No. 1.....	do	7	90	6.0	do	do	do	do	do		11,500		
20	Reynolds, Hudson & Edwards No. 1	Tilton	7	90	6.0	Dr. Ho	do	do	do	do		11,250		
21	Atherton Coal Co. No. 1	Muncie	7	200	5.0	Sh. St.	do	do	do	do		10,280		
22	Bunting Bros.	Crape Creek	6	80	7.0	Dr. Ho	do	do	do	do		8,359		
23	Stansbury & Watkins No. 1	Danville	7	60	6.0	do	Hd.	do	Hd.	do		7,920		
24	D. A. Jenkins No. 1.....	do	7	75	6.0	do	do	do	do	do		7,437		
25	Webster Bros. No. 1.....	do	7	125	6.0	do	do	do	do	do		7,000		
26	France Bros. No. 1.....	Fairmount	7	50	6.0	Sh. Ho	do	do	do	do		5,370		
27	Danville Brick & Tile Co.	Danville	7	22	6.0	St.	St.	do	do	do		5,000		
28	Joe Mauck	do	7	100	6.0	Dr. Hd	P. R.	do	do	do		4,500		
29	August Lind	do	7	70	6.0	Sl. Ho	do	do	do	do		4,480		
30	Miller & Spangler	do	7	100	6.0	Sh.	do	do	do	do		4,125		
31	Aldredge & Wolf	do	7	120	6.0	do	do	do	do	do		4,000		
32	Cantrell Bros.	do	7	85	6.0	Dr. Hd	do	do	do	do		3,600		
33	Will Winhaus	do	7	50	6.0	do	do	do	do	do		3,600		
34	Carter Bros.	do	7	60	6.0	do	do	do	do	do		3,500		
35	A. H. Bonnett	Collison	7	100	6.0	Sh. St.	do	do	M	do		3,400		
36	J. A. Russell, Star No. 2	Tilton	7	90	6.0	Dr. Hd	do	Hd	do	do		3,108		
37	Dering Coal Co. No. 4.....	Westville	6	204	6.0	Sh. St.	do	M	Both	do		3,000		
38	M. C. Wilkinson No. 2	Danville	7	65	6.0	Dr. Hd	do	Hd	do	do		3,000		
39	Wm. C. Shafer No. 1.....	do	7	110	6.0	Sl. Ho	do	do	do	do		3,000		
40	James Thomas No. 1	So. Danville	7	75	6.0	Dr. Hd	do	do	do	do		2,200		
41	L. S. Miller No. 1.....	Danville	6	16	7.0	St.	St.	do	do	do		2,000		
42	Kaines Bryant Br. No. 1...	Grape Creek	6	50	7.0	Sl. Ho	P. R.	do	do	do		2,000		
43	S. C. Bryant No. 1.....	do	6	80	7.0	Dr. Hd	do	do	do	do		2,000		
44	Adolph Roland No. 1.....	do	6	80	7.0	Sl. Ho	do	do	do	do		1,616		
45	Joe Thompson No. 1.....	do	6	80	7.0	Dr. Hd	do	do	do	do		1,500		
46	Dering Coal Co. No. 3.....	Westville	6	187	6.0	Sh. St.	do	M	Both	do		1,500		
47	Henry Young No. 1.....	Danville	7	100	6.0	Sl. Ho	do	Hd	do	do		1,407		
48	Joe Bales No. 1.....	do	7	40	5.6	do	do	do	do	do		1,400		
49	Samuel Thomas No. 1.....	Catlin	7	80	6.0	do	do	do	do	do		1,300		
50	Jacob Thompson No. 1.....	Grape Creek	6	80	7.0	Dr. Hd	do	do	do	do		1,200		
51	Hiram Willey No. 1.....	Danville	7	41	6.0	Sl. Ho	do	do	do	do		1,200		
52	Woodward & Sons No. 1...	Fairmount	7	50	5.0	Sh.	do	do	do	do		1,200		

Table 88—Continued.

**VERMILION COUNTY—Concluded.**

[illegible]

WARREN COUNTY.

[illegible]

WASHINGTON COUNTY.

[illegible]

**Table 88—Continued.**

WHITE COUNTY.

[illegible]

WILL COUNTY.

[illegible]

WILLIAMSON COUNTY.

[illegible]

Table 88—Concluded.

## WOODFORD COUNTY.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	PHYSICAL CHARACTER OF MINE.								Total tons.
			Geological number of seam.	Depth of coal—feet and inches.	Thickness of seam—feet and inches.	Shaft—slope, drift.	Hoisting—steam, horse, hand.	Long wall, pillar and room.	Haulage—hand, mule, cable, electric.	Mine—hand, machine, both.	
1	Roanoke C. & Min.Co.No.1	Roanoke .....	2	480	2.6	Sh.	St.	L-W	M	Hd.	102,395
2	Minonk Coal Co. No. 2.....	Minonk .....	2	565	2.6	do	do	do	do	do	16,284
	2 mines.....										118,679

TABLE 89—Summary of the Physical Character of the Coal Mines of the State, Geological Number of Seam, Manner of Working, Kind of Openings and Tons Produced.

GEOLOGICAL NUMBER OF SEAM.	Number of Counties	Number of Mines.	MANNER OF WORKING.			CHARACTER OF OPENING.				Tons.
			Long wall.	Pillar and room.	Strip.	Shaft.	Slope.	Drift.	Strip.	
1	15	82	1	80	1	50	5	26	1	886,416
2	18	204	47	157	.....	97	16	91	.....	5,868,178
3	2	9	.....	9	.....	6	1	2	.....	14,193
5	20	233	5	228	.....	152	27	54	.....	11,611,806
6	22	301	.....	299	2	234	28	37	2	13,371,198
7	12	119	.....	117	2	43	43	31	2	5,359,488
14	1	10	.....	10	.....	10	.....	.....	.....	15,284
Pocket ...	1	6	.....	6	.....	4	1	1	.....	6,323
Not given	9	26	1	8	2	8	4	7	2	50,488
Totals .....		990	54	914	7	604	125	249	7	37,183,374

NOTE—Twenty-six mines whose tonnage is given do not give geological number of seam. Of this number fifteen do not give manner of working and five do not give the character of opening.

## GENERAL RECAPITULATIONS.

The six tables following, make a final exhibit, by districts, of the coal industry for the year:

TABLE 90—*The State—Recapitulation by Districts—Shipping and Local Mines, Counties and Production—1905.*

DISTRICTS AND MINES.	Counties.	Number of mines.	Total tons of coal produced.	GRADED PRODUCT—TONS OF—					
				Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First.....	5	89	3,396,807	448,881	1,821,149	339,780	66,349	631,586	89,062
Shipping....	5	39	3,252,882	304,256	1,821,149	339,780	66,349	631,586	89,062
Local.....	4	50	144,525	144,525	.....	.....	.....	.....	.....
Second .....	9	178	3,212,728	262,953	2,286,758	25,660	14,390	546,879	76,088
Shipping....	8	29	2,942,229	262,953	2,038,825	25,660	14,390	524,313	76,088
Local.....	8	149	270,449	.....	247,933	.....	.....	22,566	.....
Third .....	8	262	3,107,379	624,400	1,577,792	228,639	150,467	376,569	149,512
Shipping....	6	55	2,774,498	580,447	1,289,164	228,639	150,467	376,569	149,212
Local.....	8	207	332,881	43,953	288,628	.....	.....	.....	300
Fourth .....	8	101	4,477,632	2,658,764	1,131,391	51,471	194,102	314,155	127,749
Shipping....	7	45	4,303,295	2,639,164	978,614	51,471	193,142	314,155	126,749
Local.....	3	56	174,337	19,600	152,777	.....	960	.....	1,000
Fifth .....	9	112	7,435,952	1,717,325	3,566,968	182,132	278,159	1,554,850	136,518
Shipping....	8	56	7,329,825	1,650,109	3,540,991	182,132	271,313	1,550,711	134,569
Local.....	8	56	106,127	67,216	25,977	.....	6,846	4,139	1,949
Sixth.....	5	127	8,506,929	1,613,649	4,496,714	268,675	399,094	1,421,382	307,415
Shipping....	5	92	8,392,443	1,503,788	4,494,302	268,567	399,094	1,421,287	305,405
Local.....	2	35	114,486	109,861	2,412	108	.....	95	2,010
Seventh.....	12	121	7,045,947	1,922,586	1,938,549	619,862	933,591	1,402,090	229,269
Shipping....	8	81	6,961,971	1,843,385	1,934,729	619,862	933,591	1,401,135	229,269
Local.....	10	40	83,976	79,201	3,820	.....	.....	955	.....
The State....	56	990	37,183,374	9,248,558	16,819,321	1,716,219	2,036,152	6,247,511	1,115,613
Shipping....	42	397	35,956,543	8,784,202	16,097,774	1,716,111	2,028,346	6,219,756	1,110,354
Local.....	43	593	1,226,831	464,356	721,547	108	7,806	27,755	5,259

TABLE . 91—*The State—Recapitulation by Districts—Value of Different Grades of Coal—1905.*

DISTRICTS AND MINES.	Aggregate value of total product.	AGGREGATE VALUE OF THE DIFFERENT GRADES OF COAL AT THE MINES.					
		Mine run.	Lump.	Egg.	Nut.	Pea.	Slack or waste.
First.....	\$4,630,859	\$772,593	\$2,879,655	\$537,579	\$96,918	\$352,482	\$1,632
Shipping.....	\$4,336,227	\$477,961	\$2,879,655	\$537,579	\$96,918	\$352,482	\$1,632
Local.....	294,632	294,632					
Second.....	\$4,611,234	\$364,932	\$3,775,208	\$37,247	\$19,424	\$365,582	\$50,831
Shipping.....	\$4,124,043	\$364,932	\$3,308,317	\$37,247	\$19,434	\$348,282	\$50,831
Local.....	487,191		471,891			15,300	
Third.....	\$3,570,324	\$679,573	\$2,183,281	\$296,989	\$145,561	\$196,734	\$68,186
Shipping.....	\$3,057,702	\$613,922	\$1,736,460	\$296,989	\$145,561	\$196,734	\$68,036
Local.....	512,622	65,651	446,821				150
Fourth.....	\$5,142,840	\$3,099,138	\$1,610,375	\$67,759	\$193,453	\$135,883	\$36,232
Shipping.....	\$4,896,294	\$3,079,338	\$1,384,714	\$67,759	\$192,618	\$135,883	\$35,982
Local.....	246,546	19,800	225,661		835		250
Fifth.....	\$7,164,491	\$1,721,572	\$4,283,394	\$215,596	\$230,520	\$681,138	\$32,271
Shipping.....	\$6,996,345	\$1,604,695	\$4,241,486	\$215,596	\$223,673	\$679,014	\$31,881
Local.....	168,146	116,877	41,908		6,847	2,124	390
Sixth.....	\$7,164,435	\$1,401,223	\$4,704,660	\$271,588	\$268,749	\$490,886	\$27,329
Shipping.....	\$7,001,985	\$1,242,866	\$4,700,752	\$271,446	\$268,749	\$490,843	\$27,329
Local.....	162,450	158,357	3,908	142		43	
Seventh.....	\$6,405,675	\$1,784,088	\$2,275,508	\$696,787	\$816,424	\$777,499	\$55,369
Shipping.....	\$6,299,729	\$1,683,962	\$2,269,778	\$696,787	\$816,424	\$777,409	\$55,369
Local.....	105,946	100,126	5,730			90	
The State.....	\$38,689,858	\$9,823,119	\$21,712,081	\$2,123,545	\$1,761,059	\$2,998,204	\$271,850
Shipping.....	\$36,712,325	\$9,087,676	\$20,516,162	\$2,123,403	\$1,753,377	\$2,980,647	\$271,060
Local.....	1,977,533	735,443	1,195,919	142	7,682	17,557	790



TABLE 92—*The State—Recapitulation by Districts, Disposition of the Output—1905.*

DISTRICTS AND MINES.	DISTRIBUTION OF OUTPUT—TONS.			
	Shipped from mines.	Supplied to locomotives at mines.	Sold to local trade.	Consumed and wasted at mines.
First.....	2,711,329	122,903	310,673	251,902
Shipping.....	2,711,329	122,903	166,148	251,902
Local.....			144,525	
Second.....	2,665,629	57,804	354,795	134,500
Shipping.....	2,665,629	57,804	89,641	129,155
Local.....			265,154	5,345
Third.....	2,547,468	50,848	431,775	77,288
Shipping.....	2,547,468	50,848	98,894	77,288
Local.....			332,881	
Fourth.....	3,517,943	196,029	565,496	198,164
Shipping.....	3,517,943	196,029	391,159	198,164
Local.....			174,337	
Fifth.....	6,527,037	192,815	411,135	304,965
Shipping.....	6,527,037	186,755	315,997	300,086
Local.....		6,060	95,138	4,929
Sixth.....	7,505,551	291,423	329,700	380,255
Shipping.....	7,505,551	291,423	219,696	375,773
Local.....			110,004	4,482
Seventh.....	6,192,116	266,415	197,234	390,182
Shipping.....	6,192,116	266,415	114,513	388,927
Local.....			82,721	1,255
The State.....	31,667,073	1,178,237	2,600,806	1,737,256
Shipping.....	31,667,073	1,172,177	1,896,048	1,721,245
Local.....		6,060	1,204,760	16,011

TABLE 93—*The State—Recapitulation by Districts, Hand and Machine Mining, Prices Paid, Machines—1905.*

DISTRICTS AND MINES.	TONS MINED BY—		AVERAGE PRICE PAID PER TON FOR—		MACHINES.		POWDER.	
	Hand.	Machine	Hand mining.	Machine mining.	Number of mines using.	Number in use.	Consumed for blasting coal.	For other purposes
First .....	3,396,807	.....	\$0.7783	.....	.....	.....	29,803	608
Shipping .....	3,252,282	.....	\$0.7769	.....	.....	.....	28,120	508
Local .....	144,525	.....	0.8199	.....	.....	.....	1,683	95
Second .....	3,212,728	.....	\$0.7742	.....	.....	.....	43,055	2,440
Shipping .....	2,942,229	.....	\$0.7577	.....	.....	.....	35,641	2,440
Local .....	270,499	.....	0.9533	.....	.....	.....	7,414	.....
Third .....	3,107,379	.....	\$0.6032	.....	.....	.....	142,231	5
Shipping .....	2,774,496	.....	\$0.5841	.....	.....	.....	139,770	5
Local .....	332,881	.....	0.7632	.....	.....	.....	2,461	.....
Fourth .....	4,169,065	308,567	\$0.5459	\$0.4493	6	46	115,581	166
Shipping .....	3,994,728	308,567	\$0.5425	\$0.4493	6	46	110,736	166
Local .....	174,337	.....	0.6223	.....	.....	.....	4,845	.....
Fifth .....	4,561,019	2,874,933	\$0.5301	\$0.4501	17	217	210,635	494
Shipping .....	4,463,383	2,866,442	\$0.5252	\$0.45	15	213	207,961	494
Local .....	97,636	8,491	0.7576	0.467	2	4	2,674	.....
Sixth .....	4,730,976	3,775,953	\$0.515	\$0.4505	37	393	192,589	32
Shipping .....	4,616,490	3,775,953	\$0.5131	\$0.4505	37	393	190,877	32
Local .....	114,486	.....	0.595	.....	.....	.....	1,712	.....
Seventh .....	5,803,334	1,242,613	.....	.....	18	128	204,606	418
Shipping .....	5,719,358	1,242,613	\$0.4699	\$0.3923	18	128	202,703	418
Local .....	83,976	.....	0.5499	.....	.....	.....	1,903	.....
The State .....	28,981,308	8,202,066	\$0.5856	\$0.4432	78	784	938,500	4,158
Shipping .....	27,762,968	8,193,575	\$0.5782	\$0.4432	76	780	915,808	4,063
Local .....	1,218,340	8,491	0.7606	0.467	2	4	22,712	95

TABLE 94—*The State—Recapitulation by Districts, Value of Coal per Ton—1905.*

DISTRICTS AND MINES.	AVERAGE VALUE OF GRADED COAL AT THE MINES.						
	All grades.	Mine run.	Lump.	Egg.	Nut.	Pea.	Slack.
First .....	\$1.3633	\$1.7212	\$1.5812	\$1.5821	\$1.31	\$0.5581	\$0.648
Shipping .....	\$1.3333	\$1.5704	\$1.5812	\$1.5821	\$1.31	\$0.5581	\$0.648
Local .....	2.0386	2.0386	.....	.....	.....	.....	.....
Second .....	\$1.4353	\$1.3878	\$1.6509	\$1.4515	\$1.3505	\$0.6648	\$0.668
Shipping .....	\$1.4017	\$1.3878	\$1.6202	\$1.4515	\$1.3505	\$0.6642	\$0.668
Local .....	1.8011	.....	1.9033	.....	.....	0.678	.....
Third .....	\$1.149	\$1.0884	\$1.3838	\$1.2989	\$0.9674	\$0.5251	\$0.456
Shipping .....	\$1.0577	\$1.0577	\$1.3469	\$1.2989	\$0.9674	\$0.5251	\$0.456
Local .....	1.5399	1.1966	1.5933	.....	.....	.....	0.50
Fourth .....	\$1.1486	\$1.1656	\$1.4234	\$1.3164	\$0.9965	\$0.4325	\$0.2836
Shipping .....	\$1.1378	\$1.1668	\$1.415	\$1.3164	\$0.9972	\$0.4325	\$0.2839
Local .....	1.4142	1.0102	1.6138	.....	0.87	.....	0.25
Fifth .....	\$0.9635	\$1.0025	\$1.2008	\$1.1837	\$0.8286	\$0.4316	\$0.2364
Shipping .....	\$0.9545	\$0.9725	\$1.1978	\$1.1837	\$0.8244	\$0.4379	\$0.2369
Local .....	1.5844	1.739	1.6132	.....	1.00	0.5131	0.20
Sixth .....	\$0.8422	\$0.8683	\$1.0462	\$1.0108	\$0.6734	\$0.3454	\$0.2362
Shipping .....	\$0.8343	\$0.8265	\$1.0459	\$1.0107	\$0.6734	\$0.3454	\$0.2362
Local .....	1.4315	1.4414	1.62	1.32	.....	0.45	.....
Seventh .....	\$0.9091	\$0.928	\$1.1738	\$1.1241	\$0.8745	\$0.5445	\$0.2615
Shipping .....	\$0.9049	\$0.9135	\$1.1732	\$1.1241	\$0.8745	\$0.5548	\$0.2615
Local .....	1.2618	1.2642	1.50	.....	.....	0.25	.....
The State .....	\$1.0405	\$1.0621	\$1.2909	\$1.2373	\$0.8649	\$0.4799	\$0.3013
Shipping .....	\$1.021	\$1.0323	\$1.2745	\$1.2373	\$0.8644	\$0.4792	\$0.3012
Local .....	1.6119	1.6269	1.6574	1.3148	0.9641	0.6326	0.2431

TABLE 95—*The State—Recapitulation by Districts, Employees, Days in Operation—1905.*

DISTRICTS AND MINES.	EMPLOYES.					Average days of operation.	CASUALTIES.	
	Miners.	Others under ground.	Boys under ground.	All above ground.	Total.		Killed.	Injured.
First .....	6,010	1,254	256	637	8,157	198	9	102
Shipping .....	5,663	1,211	253	589	7,716	216	.....	.....
Local .....	347	43	3	48	441	185	.....	.....
Second .....	5,759	1,176	190	636	7,761	171	14	83
Shipping .....	5,070	1,137	190	535	6,932	211	.....	.....
Local .....	689	39	.....	101	829	163	.....	.....
Third .....	3,952	841	46	558	5,397	159	9	23
Shipping .....	3,078	782	46	430	4,336	198	.....	.....
Local .....	874	59	.....	128	1,061	148	.....	.....
Fourth .....	5,006	1,503	224	714	7,441	185	40	102
Shipping .....	4,694	1,499	224	633	7,050	206	.....	.....
Local .....	306	4	.....	81	391	171	.....	.....
Fifth .....	6,882	1,971	333	989	10,175	165	23	81
Shipping .....	6,646	1,957	326	940	9,869	184	.....	.....
Local .....	236	14	7	49	306	147	.....	.....
Sixth .....	7,157	2,102	261	1,116	10,636	186	25	59
Shipping .....	6,989	2,084	261	1,067	10,401	187	.....	.....
Local .....	168	18	.....	49	235	182	.....	.....
Seventh .....	6,442	1,847	230	1,144	9,663	179	79	85
Shipping .....	6,279	1,845	228	1,087	9,439	203	.....	.....
Local .....	163	2	2	57	224	129	.....	.....
The State .....	41,202	10,694	1,540	5,794	59,230	175	199	535
Shipping .....	38,419	10,515	1,528	5,281	55,743	198	.....	.....
Local .....	2,783	179	12	513	3,487	160	.....	.....

## FIRST INSPECTION DISTRICT—1905.

### TWENTY-SECOND ANNUAL REPORT.

Counties—Grundy, Kankakee, LaSalle, Livingston, Will.

HECTOR McALLISTER, *Inspector*, Streator.

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with section 12 of an act of the General Assembly of the State of Illinois, defining the duties of the State inspectors of coal mines, and providing for the health and safety of persons employed therein, I herewith submit the twenty-second annual report of coal mines in the first inspection district for the year ended June 30, 1905.

The district includes the coal producing counties of Grundy, Kankakee, LaSalle, Livingston and Will. The report contains tabulated statements, showing the number of mines in operation, both shipping and local; the depth of the shafts, and the thickness and geological number of the different seams; the number of new and abandoned mines; the total number of persons employed at each mine; the tons of lump and other grades of coal produced; the price per ton paid for mining; the value of lump and other grades of coal per ton at the mine, and the aggregate value of the total product; the number of kegs of powder and the number of pounds of dynamite consumed; the casualties in and around the mines, both fatal and non-fatal; the number of wives made widows, and of children left fatherless, caused by fatal accidents; also the number of days of active operation of every mine in the district.

The following is a summary for all the counties in the district:

Total number of mines.....	89
Number of shipping mines.....	39
Number of local mines.....	50
Number of new mines.....	17
Number of abandoned mines.....	16
Number of miners.....	6,010
Number of others underground.....	1,254
Number of boys underground.....	256
Number of employes above ground.....	687
Total number of employes.....	8,157
Total tons of coal produced, all grades.....	3,395,807
Total tons of mine run.....	448,881
Total tons of lump.....	1,821,149
Total tons of egg.....	339,780
Total tons of nut.....	66,349
Total tons of screenings.....	631,536
Total tons of slack, burned or wasted.....	89,062
Average value per ton of mine run at the mine, shipping mines.....	\$1.57
Average value per ton of lump.....	\$1.531
Average value per ton of egg.....	\$1.532
Average value per ton of nut.....	\$1.31
Average value per ton of screenings.....	\$0.5531
Average value per ton of slack or waste.....	\$0.648
Aggregate value of the total product, all mines.....	\$4,630,859

Average price paid per gross ton for hand mining, shipping mines.....	\$0.7769
Average number of days of active operation, shipping mines.....	211
Number of kegs of powder used.....	30,456
Number of pounds of dynamite used.....	9,178
Tons of coal shipped from the mines.....	2,711,329
Tons supplied to locomotives.....	122,903
Tons sold to local trade, shipping mines.....	166,148
Tons sold to local trade, local mines.....	144,525
Tons sold to local trade, all mines.....	310,673
Tons consumed and wasted at the plant, shipping mines.....	251,902
Number of fatal accidents.....	9
Number of non-fatal accidents.....	102
Number of wives made widows.....	3
Number of children left fatherless.....	11
Tons of coal mined to each fatal accident.....	377,423
Tons of coal mined to each non-fatal accident.....	33,302
Number of employes to each fatal accident.....	906
Number of employes to each non-fatal accident.....	80
Rate of fatal accidents to 1,000 persons employed.....	1.1

*The following statement gives the coal production, by counties, in the First district, with the increase or decrease in each, for the years ended June 30, 1904 and 1905.*

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL IN TONS.		Increase.	Decrease.
	1904.	1905.		
Grundy.....	1,405,158	1,326,109	.....	79,049
Kankakee.....	53,405	700	.....	52,705
LaSalle.....	1,773,189	1,496,853	.....	76,336
Livingston.....	150,467	244,894	83,927	.....
Will.....	68,096	128,751	60,655	.....
Total.....	3,450,315	3,396,807	154,582	208,090
Net decrease.....	.....	.....	.....	53,508

The counties of Grundy, Kankakee and LaSalle show a decrease in output of 208,090 tons for 1905; the counties of Livingston and Will show an increase of 154,582 over that of 1904, leaving a net decrease for the district of 53,508 tons. The cause of the small output shown for Kankakee county results from the closing down of the Gardner-Wilmington Coal Company's mine at Clark City for nearly eleven months.

#### NEW MINES.

The Wilmington Coal Mining and Manufacturing Company has opened out a new mine at Torine, Will county. This mine is located three miles southeast of Braceville. A town site has been laid out and about twenty houses have been erected. The shaft is 90 feet deep, thickness of coal seam three feet, and is No. 2 of the geological section; this will be one of the largest coal producers in the county.

The Joliet-Wilmington Coal Company has sunk a new shaft about one mile southeast of Braidwood, Will county, known as its No. 1. mine. All the machinery and top works of the old Reliance mine have been removed to the new shaft, and the old mine has been abandoned. The new shaft is 115 feet deep, thickness of coal seam three feet and is No. 2 of the geological section. This mine is equipped for a large output.

The Braidwood-Wilmington Coal Company has opened out a new mine one mile east of Braceville, Grundy county.

William Mitchell and Max Davis & Sons have opened out new mines near Morris, Grundy county.

William Bottomley and L. D. Morse have opened out new mines at Lowell, LaSalle county.

Adam Crompton, Chas. Hepp, George Steel and Harvell & Baker have opened out new mines southwest of Ottawa, LaSalle county.

Lockwood & Dietman have sunk a new shaft three miles north of Wilsman, LaSalle county.

The Star Coal Company of Kangley has sunk a new hoisting shaft at the face of No. 2 workings, about two miles west of the old shaft, doing away with the endless rope haulage.

#### ABANDONED MINES.

The following mines have been abandoned in Grundy county: The Big Four-Wilmington Coal Company No. 2, at Carbon Hill; Taylor & Cavanaugh's No. 4, at Carbon Hill; R. Blair's mine, east of Morris.

The Star Coal Company has abandoned its No. 2 mine at Kangley, LaSalle county; Thomas Smith & Sons, William Thomas & Company and Bargreen Bros. have abandoned their mines near Streator, LaSalle county.

T. B. Farrell, James Edson and William Saxby have abandoned their mines southwest of Ottawa, LaSalle county.

Alex Steel & Company, John Westerlund and Harry Wonders have abandoned their mines near Coalville, Livingston county. Beggs, Davis & Company have abandoned their mine at Fairbury, Livingston county.

#### CHANGES IN OWNERSHIP.

The Consolidated Coal & Iron Company of Chicago has purchased the mine formerly operated by the Gardner-Wilmington Coal Company at Clark City, Kankakee county. This mine was closed down in February, 1904; at that time the lower seam was being worked. The new company is now opening up the upper seam, and has purchased 80 acres of coal land, which is situated 400 feet west of the shaft. All the old workings have been closed off except the pair of entries leading toward the new coal fields; the parting and roadways around the bottom of the shaft have been retimbered and put in safe condition.

The Phoenix Coal & Mining Company of Chicago has purchased the mine formerly operated by the Manhattan Coal Company of Cornell, Livingston county.

#### IMPROVEMENTS.

##### Installation of Electric Haulage Plant.

The most notable improvement in this district made during the year has been that at the Oglesby mine of the Oglesby Coal Company, LaSalle county. This company has installed two high pressure tubular boilers, 125-horsepower, 6x18 feet, made by the Atlas Engine works; one electric generator, 125 K. W., made by the Goodman Manufacturing Company of Chicago; one high speed generator engine, 200-horsepower, made by the Ridgeway Dynamo & Engine Company, Ridgeway, Pa. The company has also installed an electric mine motor, 80-horsepower of the third rail type, also furnished by the Goodman Manufacturing Company. About 4,500 feet of entry has been laid with third rail track. An improved Ottumwa box car loader has been installed with an 80-horsepower electric motor for driving the same. Electric lights have been put in the boiler and engine rooms, shops and the entire top works, also at the bottom of the shaft, at each switch and place of refuge on the main hauling road. Four arc lights have been put in the yard adjacent to the works. About 100 pit cars have been added to the equipment of the mine; a heater has been installed for heating, with exhaust steam from the generator engine, the water for the boiler feed. A plant has also been installed for heating the main office, store buildings and the president's residence, with exhaust steam from the fan engine.

The Acme Coal Company, Streator, LaSalle county, has installed in its mine a tail-rope haulage, which has increased their output 150 tons daily.

## MINE FIRES.

On the evening of July 16, 1904, a disastrous fire broke out in the tower of the Acme Coal Company's mine at Streator, LaSalle county, by which the tower, coal washer, storage bins, engine house, and boiler rooms were destroyed. The fire also extended down the hoisting shaft about 70 feet, burning the inside curbing which had to be renewed. The fire is supposed to have originated from a spark from a locomotive, which had just pulled a train of coal cars from the mine, setting fire to the tower. The loss was about \$30,000.00, insurance \$7,500. The company at once began repairs. A new tower, coal washer, storage bins, engine house and boiler room have been erected, and the plant is now first class in every particular. The mine was again in operation September 22, 1904.

The engine house and boiler room of the Marseilles Coal Mining Company, Marseilles, LaSalle county, were destroyed by fire July 24, 1904. New brick engine house and boiler room have been erected. The mine renewed operation September 5, 1904.

## FATAL ACCIDENTS.

July 21, 1904. Robert Duffey, miner, aged 20 years, single, was instantly killed by falling rock at the face of his working place in the Brady Coal Company's mine, Pontiac, Livingston county.

August 16, 1904. Dominic Formea, miner, age 31 years, single, was killed instantly by a blast blowing through the pillar in the No. 3 mine of the Big Four Coal Company, Eileen, Grundy county.

September 29, 1904. John Delpus, miner, age 46 years, married, was killed instantly by falling rock on the entry, 42 feet from the face, in the Brady Coal Company's mine, Pontiac, Livingston county. He leaves a widow and five children.

November 25, 1904. John Corrilli, pusher, age 19 years, single, was severely injured by a loaded pit car running over him in the No. 7 mine of the Wilmington Star Mining Company, Coal City, Grundy county. Deceased was in front of the car on a steep grade, but lost control of the car. He died six days after the accident occurred.

December 9, 1904. Anton Sgro, miner, aged 30 years, single, was killed instantly by falling down the No. 1 shaft of the C. W. & V. Coal Co., South Wilmington, Grundy county. The accident occurred about 6:45 a. m. The engineer was letting down the men, nine in number, they getting on the cage at the lower landing; when they were down about 30 feet the engineer suddenly reversed the engine, hoisting them to the top at a very high speed; the cage being self dumping the men were thrown out at the top; unfortunately one fell down the shaft, the other eight were more or less injured.

December 31, 1904. John Wendel, miner, age 24 years, single, was severely injured by a fall of rock on his roadway, 45 feet from the face of his working place in the No. 5 mine of the Braceville Coal Company, Braceville, Grundy county. Deceased had quit work about 3:00 o'clock p. m., and was going out when a large rock fell on him. He was conveyed to his home where he died about 6 o'clock the same day.

January 12, 1905. John Gatti, miner, age 45 years, single, was instantly killed by falling rock at the face of his working place in the No. 3 mine of the Big Four Coal Co., Carbon Hill, Grundy county.

February 28, 1905. Louis Galetti, miner, age 50 years, married, was killed instantly by falling rock at the face of his working place in the No. 5 mine of the Braceville Coal Co., Braceville, Grundy county. He leaves a widow and six children.

May 29, 1905. Lawrence Kinder, miner, age 45 years, married, was killed instantly by a falling rock at the face of his working place in the Matthiesson & Hegeler Zinc Co's. mine, LaSalle, LaSalle county. The partner of the deceased fired a shot in the entry. Kinder was turning a room off the entry, he returned to observe the effects of the shot; his partner told him not to go



into the entry as there was a loose rock at the face; deceased sounded the stone, and said it was all right, at that moment the stone fell with the result as stated. He leaves a widow.

The tables of the fatal and non-fatal casualties follow, also the statistical tables by counties, of the output, prices and values and other detailed information, regarding the coal industry of this state.

Respectfully submitted,

HECTOR MCALLISTER,

*State Inspector of Mines, First District, Streator, Ill.*

*Fatal Casualties—First District—July 1, 1905.*

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Widows.	Children.	Single. Persons dependent.	Cause of accident.
1904.									
July 21.	Robert Duffey	20	Miner	Pontiac				1	Falling rock
Aug. 16.	Domnic Formea	31	do	Eileen				1	Flying coal
Sept. 29.	John Delpus	48	do	Pontiac	1	1	5	5	Falling rock
Nov. 22.	John Corilli	19	Pusher	Coal City				1	Pit car
Dec. 9.	Anton Sgro	30	Miner	So. Wilm'tn				1	Falling down shaft
Dec. 31.	John Wendel	24	do	Braceville				1	Falling rock
1905.									
Jan. 12.	John Gatti	45	do	Carbon Hill				1	do
Feb. 28.	Louis Galetti	50	do	Braceville	1	1	6	7	do
May 29.	Laurence Kinder	45	do	LaSalle	1	1			do
	Total	9			3	3	11	6	12

*Recapitulation of Fatal Casualties—First District—July 1, 1905.*

Residence.	$\frac{C}{N}$	Occupation.	$\frac{C}{N}$	Nature of Casualty.	$\frac{C}{N}$	Colliery.	$\frac{C}{N}$
Braceville	2	Miners	8	Falling rock	5	Braceville Coal Co.	2
Coal City	1	Pusher	1	Flying coal	1	Brady Coal Co.	2
Carbon Hill	1			Falling down shaft	1	Big Four Wilm. Coal Co.	2
Eileen	1			Pit car	1	C. W. & V. Coal Co.	1
LaSalle	1					M. & H. Zinc Co.	1
Pontiac	2					Wilm. Star M. Co.	1
So. Wilm'gton.	1						
Total	9		9		9		9

*Non-Fatal Casualties—First District—July 1, 1905.*

DATE.	NAME.	Age.	Residence. (Town)	Married. Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1904.								
July	1 John Morrello	45	Diamond	1	5	5	Toes injured, flying coal	42
	5 John Grabin	62	LaSalle	1	1	1	1 Leg broken, falling rock	*
	6 T. H. Davis	35	Braidwood	1	1	1	2 Leg broken, flying coal	180
	7 John Bockwith	28	S. Wilmington	1	1	1	2 Back injured, falling rock	33
	14 George Dolick	30	Braceville	1	1	2	2 Back injured, falling rock	64
	22 John Stratan	46	LaSalle	1	1	1	Collar bone br'k'n, fall'g c'l.	182
	27 Fred Monferdno	34	Braceville	1	5	6	Back injured, falling rock	31
	30 Arthur Hoffmann	34	LaSalle	1	4	1	Ankle dislocated, fall'g coal	30
Aug.	11 Jacko Zamti	30	Carbon Hill	1	1	1	Leg injured, falling rock	30
	26 G. Cummings	30	Kangley	1	1	1	Leg injured, falling rock	30
	29 Chas. Gallo	30	Oglesby	1	3	3	Arm injured, pit car	50
	31 M. Scotch	57	Streator	1	2	3	Leg injured, falling rock	30
Sept.	2 Thos. King	19	do	1	1	1	Leg broken, falling rock	60
	7 Frank Buham	35	Oglesby	1	2	3	Ankle injured, falling rock	130
	8 Joe Shilma	30	do	1	1	1	Back injured, falling rock	42
	12 Thos. Covington	40	Braidwood	1	1	1	Foot injured, flying coal	37
	24 Andrew Washko	45	Streator	1	2	3	Foot injured, falling rock	180
	26 Nichols Deloed	38	Braidwood	1	1	1	Leg broken, falling rock	182
	30 Dom Geoetto	44	S. Wilmington	1	1	1	Leg broken, falling rock	36
Oct.	6 Chas. Bunker	35	Deer Park	1	1	1	2 Back injured, falling rock	35
	7 Williams Hines	28	S. Wilmington	1	1	1	1 Face and hands burned, gas	60
	13 John Deosug	32	Streator	1	2	3	Foot injured, falling rock	48
	15 Andro Rosenski	35	Rutland	1	1	1	Hand injured, falling rock	180
	21 Casper Schmitt	43	Peru	1	5	6	Leg broken, falling coal	42
	26 L. Patrila	37	S. Wilmington	1	1	1	Leg injured, falling rock	84
	30 Geo. Allen, Jr.	17	Braidwood	1	1	1	Leg broken, falling rock	65
Nov.	7 A. Gasper	38	Kangley	1	1	1	Leg broken, falling coal	119
	8 Amos Gibbs	48	LaSalle	1	5	6	Foot injured by cage	175
	11 Joe Puglim	37	S. Wilmington	1	2	3	Leg injured, falling coal	*
	17 Hubert Walter	40	Braceville	1	4	5	Leg broken, falling rock	120
	17 S. Zuroff	52	LaSalle	1	1	1	Leg injured, falling coal	35
	18 John Profk	60	do	1	3	4	Arm broken, falling coal	36
	19 C. Marcelli	44	S. Wilmington	1	1	1	Foot injured, falling coal	140
	21 Mike Novack	50	Rutland	1	1	1	Back injured, falling rock	*
	22 Eugene Savio	37	Braceville	1	3	4	Leg broken, falling rock	102
Dec.	28 M. Bernardo	27	LaSalle	1	1	1	Head injured, falling coal	42
	3 Joseph Pavles	42	Coal City	1	2	3	Hip injured, falling rock	*
	5 Harry Pelican	24	LaSalle	1	1	1	Leg injured, pit car	42
	6 John Beamer	58	do	1	5	5	Ribs broken, falling rock	42
	9 Aug. Cheedo	35	S. Wilmington	1	1	1	Foot injured, cage	34
	15 A. Colennar	28	Streator	1	3	4	Leg injured, falling coal	84
	19 Frank Greck	37	Rutland	1	4	5	Foot injured, pit car	42
	19 E. Barnett	25	Braidwood	1	1	1	Leg injured, pit car	180
	20 B. Carsisi	22	Streator	1	1	1	Leg broken, falling rock	32
	23 Richard Virzo	39	LaSalle	1	2	2	Back injured, falling rock	*
	23 B. Carigan	48	do	1	1	1	Hip injured, falling rock	30
	23 Steve Stabalo	18	Kangley	1	1	1	Face and hands burned, powder explosion	73
	24 John Rossman	49	LaSalle	1	4	4	Body injured, falling rock	63
	24 William Bird	52	Braceville	1	2	3	Eye put out	60
	24 Thos. Watson	20	Oglesby	1	1	1	Body injured, pit car	40
	27 John Murray, Jr.	22	do	1	1	1	Collar bone broken, pit car	60
1905.								
Jan.	3 Dom Marino	17	Eileen	1	1	1	Leg broken, pit car	42
	6 Geo. Brown	17	Diamond	1	1	1	Leg injured, falling coal	45
	13 Geo. Scholtio	40	Streator	1	5	5	Head injured, falling coal	35
	18 Peter Revo	21	S. Wilmington	1	1	1	Leg injured, pit car	121
	24 Joe Feasco	49	do	1	5	4	Leg injured, falling rock	35
	24 Fred Dolanaski	45	Coal City	1	4	4	Back injured, falling rock	180
	24 M. Kraifind	25	Braidwood	1	1	1	Leg broken, falling rock	170
	24 John Molek	20	Godley	1	1	1	Leg broken, falling rock	91
Feb.	1 James Hugh, Sr.	58	Braidwood	1	5	6	Leg broken, falling coal	42
	4 C. Eachenbaum	60	Diamond	1	1	1	Leg injured, falling coal	50
	6 Mat Halpin	62	Oglesby	1	1	1	Arm broken, falling rock	40
	7 Fred Berg	51	Streator	1	2	2	Foot injured, falling rock	42
	7 C. Morgan	51	S. Wilmington	1	4	4	Leg injured, pit car	70
	9 Phillip Sasso	22	Diamond	1	1	1	Leg broken, falling coal	105
	14 Bart Ballotti	57	Braceville	1	1	1	Toe cut off, falling rock	

*Non-Fatal Casualties—First District—Concluded.*

DATE.	NAME.	Age.	Residence. (Town)	Married. Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1905.								
Feb.	18 A. Arthraell.....	26	LaSalle.....	1	1		Finger injured, falling coal	30
	21 John Alexander, Sr.....	62	Oglesby.....	1	1	1	Leg broken, falling coal...	*
	23 P. Grappelli.....	48	S. Wilmington.....	1	1		Leg injured, falling coal...	49
	25 Aug. Grabow.....	18	LaSalle.....	1	1		Hand injured, pit car.....	31
	27 Joseph Crabbana.....	25	do.....	1	1		Leg broken, falling coal.....	82
	27 David Miller.....	52	Coal City.....	1	3	3	Leg broken, falling coal.....	123
March	1 Ben Wisson.....	55	Kangley.....	1	9	8	Leg broken, falling coal.....	120
	5 Joseph Renwick.....	22	Streator.....	1	1		Foot cut off, falling rock.....	*
	9 John Harbach.....	50	do.....	1	1	2	Head injured, falling rock.....	60
	10 John Kusmak.....	28	do.....	1	1	1	Finger injured, pit car.....	45
	10 G. Genden.....	52	S. Wilmington.....	1	2	3	Finger injured, falling rock.....	42
	18 Peter Girot.....	50	Diamond.....	1	6	7	Knee injured, falling coal.....	56
	21 Thos. Williams.....	23	Fairbury.....	1	1		Leg broken, pit car.....	54
	23 Thos. Rowe.....	35	Diamond.....	1	1		Hand injured, sledge.....	56
	27 Peter Beato.....	49	S. Wilmington.....	1	4	5	Leg broken, falling rock.....	91
April	3 Nick Shistrun.....	45	do.....	1	4	5	Face and hands burned, ex- plosion of gas.....	91
	3 John Kuatic.....	24	LaSalle.....	1	1		Leg injured, pit car.....	30
	3 Frank Yonker.....	18	do.....	1	1		Finger injured, pit car.....	38
	8 C. Pollart.....	43	Braceville.....	1	2	3	Leg cut off, falling rock.....	*
	15 Peter Sisco.....	17	LaSalle.....	1	1		Arm injured, pit car.....	*
	19 Anton Nicoletti.....	46	Braceville.....	1	6	7	Back injured, falling rock.....	70
	27 Joe Jemerichi.....	30	Oglesby.....	1	2	3	Back injured, falling rock.....	80
May	3 Fred Berrubi.....	27	S. Wilmington.....	1	5	6	Leg injured, falling rock.....	49
	10 John Plaski.....	30	LaSalle.....	1	1	1	Head injured, falling rock.....	34
	15 Jack Robatta.....	37	Torine.....	1	1	2	Leg broken, falling rock.....	*
	18 James Ferra.....	40	LaSalle.....	1	1		Toe injured, falling coal.....	33
	18 Andrew Gampaenalo.....	28	Streator.....	1	1		Back injured, falling coal.....	40
	22 Thos. McDonald.....	56	Oglesby.....	1	1	1	Leg broken, falling rock.....	*
	27 Thos. R. Williams.....	48	Braceville.....	1	5	6	Leg injured, falling rock.....	35
	29 Stany Ross.....	40	Oglesby.....	1	2	3	Head injured, prop.....	*
June	5 Frank Wadruski.....	44	LaSalle.....	1	1	1	Foot injured, falling coal.....	67
	6 David Rowatt.....	24	Streator.....	1	1		Foot injured, pit car.....	*
	7 Andrew Francisco.....	40	Diamond.....	1	1	2	Leg broken, falling rock.....	*
	8 John Bluynski.....	37	LaSalle.....	1	3	3	Finger injured, pit car.....	*
	9 Joe Bertotti.....	41	Torine.....	1	1		Leg injured, falling rock.....	*
	26 Isaac Smith.....	46	Carbon Hill.....	1	3	4	Body injured, falling rock.....	*
	Total.....			60	42	181	202	

\* Not recovered July 1, 1905.

Total number of men injured.....	102
Not recovered July 1, 1905.....	18
Number recovered July 1, 1905.....	84
Time lost by men recovered.....	5,928
Average days lost by men recovered.....	70.6

*Recapitulation of Non-Fatal Casualties—First District—July 1, 1905.*

Residence.	$\frac{O}{N}$	Occupation.	$\frac{O}{N}$	Nature of Casualty.	$\frac{O}{N}$	Colliery.	$\frac{O}{N}$
Braceville .....	8	Brusher.....	1	Explosion of gas.....	2	Acme Coal Co.....	3
Braidwood .....	7	Cager.....	1	Cage.....	2	Braidwood Wilm. Coal Co	1
Carbon Hill.....	2	Drivers.....	11	Falling coal.....	23	Braceville Coal Co.....	9
Coal City.....	3	Miners.....	80	Falling rock.....	47	Big Four Coal Co.....	4
Diamond.....	7	Roadmen.....	5	Flying coal.....	4	Cahill, James.....	2
Deer Park.....	1	Spraggers.....	2	Pit cars.....	21	C. W. & V. Coal Co.....	24
Eileen.....	1	Trapper.....	1	Powder explosion.....	1	Co-operative Coal Co.....	1
Fairbury.....	1	Weighman.....	1	Prop.....	1	Illinois Zinc Co.....	4
Godley.....	1			Sledge.....	1	Joliet Wilm. Coal Co.....	1
Kangley.....	4					LaSalle Co. C. C. Co.....	22
LaSalle.....	22					Murphy, Keenan & Co.....	2
Oglesby.....	11					Mrs. E. Hakes.....	3
Peru.....	1					Oglesby Coal Co.....	7
Rutland.....	3					Star Coal Co.....	4
Streator.....	13					Streator Clay Works.....	1
Torine.....	2					Wilm. C. M. & Mfg. Co.....	12
S. Wilmington.....	15					Wilm. Star Mining Co.....	2
Total.....	102		102		102		102

*Recapitulation of Non-Fatal Casualties, Nature of Injuries, Con-  
jugal Relations and Time Lost—First District—July 1, 1905.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Percent of injuries.
					Total days.	Average days*	
Ankle dislocated.....	1	1	.....	4	31	31	.98
Ankle injured.....	1	1	.....	3	30	30	.98
Arms broken.....	12	2	.....	5	170	85	1.96
Arms injured.....	2	1	1	3	50	50	1.96
Body injured.....	4	3	1	11	168	56	3.93
Back injured.....	11	7	4	24	759	69	10.8
Collar bone broken.....	2	.....	2	.....	104	52	1.96
Eye put out.....	1	1	.....	3	63	63	.98
Face and hands burned.....	3	2	1	6	156	52	2.94
Feet injured.....	10	6	4	20	402	50.25	9.81
Foot amputated.....	1	.....	1	.....	.....	.....	.98
Fingers injured.....	5	3	2	7	155	39	4.9
Hands injured.....	3	.....	3	.....	135	45	2.94
Hips injured.....	2	1	1	3	102	51	1.96
Head injured.....	4	4	.....	11	139	46.3	3.93
Knee injured.....	1	1	.....	7	56	56	.98
Legs broken.....	25	14	11	37	2,456	98.2	24.51
Legs injured.....	18	10	8	32	772	43	17.65
Leg amputated.....	1	1	.....	3	.....	.....	.98
Ribs broken.....	1	1	.....	5	.....	.....	.98
Toes injured.....	3	1	2	6	75	37.5	2.94
Toes amputated.....	1	.....	1	.....	105	10.5	.98
Totals, average and percentage.....	102	60	42	202	5,928	58.12	100.00



*Grundy County—First District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Chi., Wilm. & Ver. Coal Co. No. 1.	S. Wilmington		151,090	24,433		46,407
2	Chi., Wilm. & Ver. Coal Co. No. 2.	do		115,870	38,424		35,829
3	Braceville Coal Co. No. 5.	Braceville		132,482			31,742
4	Big Four Coal Co. No. 5.	Carbon Hill	32	98,451			26,426
5	Big Four Coal Co. No. 3.	do		74,113		13,242	31,206
6	Wilmington Star Mining Co. No. 6.	Coal City	129	41,777	11,383	12,271	29,049
7	Braceville Coal Co. No. 6.	Braceville		69,203			22,192
8	Wilmington C. M. & Mfg. Co. No. 4.	Diamond		64,017			18,291
9	Big Four Wilm. Coal Co. No. 6.	Carbon Hill	218	35,296	25,891		19,063
10	Wilmington Star Mining Co. No. 5.	Coal City		45,884		3,127	12,686
11	Wilmington Star Mining Co. No. 7.	do	778	15,124	26	2,902	10,528
12	Wilmington C. M. & Mfg. Co. No. 5.	Diamond		11,085			2,880
Totals			1,157	854,332	100,157	31,542	286,299
LOCAL MINES.							
1	Mitchell Bros.	Morris.	3,600				
2	Morris Coal Co.	do	3,462				
3	William Wood	do	3,210				
4	J. K. Telfer	do	2,617				
5	Frank Gilbride	do	2,500				
6	J. & J. Heather	do	2,400				
7	J. Cryer Jr.	do	2,100				
8	Byrnes & Fleming	do	2,000				
9	James Bell	do	1,602				
10	William Mitchell*	do	1,500				
11	Braidwood Wilmington Coal Co.*	Braceville.	1,385				
12	Max Davis & Sons*	Morris.	486				
Totals			26,862				
Totals—24 mines			28,019	854,332	100,157	31,542	286,299

\*New mines.

Mines reported for 1904—25.

New mines—3.

Abandoned mines—4.

Mines in 1906—24.

*Grundy County—First District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
	221,870	\$269,504	214,834		1,019	6,017	186	221,870	443	113	556	1
	190,123	235,371	180,605		3,787	5,731	192	190,123	346	93	439	2
	164,224	229,387	155,385		3,207	5,632	272	164,224	259	81	340	3
9,105	134,014	140,538	119,106		5,803	9,105	202	134,014	231	64	295	4
3,650	122,211	125,731	118,561			3,650	181	122,211	243	45	288	5
1,825	96,434	101,365	94,609			1,825	252	96,434	165	56	221	6
	91,395	136,955	85,809			5,586	270	91,395	135	56	191	7
4,000	86,308	94,837	80,322		1,986	4,000	179	86,308	195	81	276	8
1,900	82,368	87,619	80,468			1,900	241	82,368	106	43	149	9
2,920	64,617	74,104	57,414		4,283	2,920	255	64,617	104	70	174	10
1,460	30,818	29,850	29,358			1,460	181	30,818	85	37	122	11
900	14,865	16,461	13,965			900	39	14,865	150	50	200	12
25,760	1,299,247	\$1,541,722	1,230,436		20,085	48,726	219	1,299,247	2,462	789	3,251	
	3,600	\$9,900			3,600		230	3,600				1
	3,462	6,578			3,462		240	3,462				2
	3,210	8,828			3,210		270	3,210				3
	2,617	6,543			2,617		250	2,617				4
	2,500	6,875			2,500		212	2,500				5
	2,400	6,600			2,400		230	2,400				6
	2,100	5,775			2,100		210	2,100				7
	2,000	5,500			2,000		208	2,000				8
	1,602	4,406			1,602		225	1,602				9
	1,500	4,125			1,500		200	1,500				10
	1,385	3,116			1,385		140	1,385				11
	486	1,337			486		108	486				12
	26,862	\$69,583			26,862		210	26,862	82	14	96	
25,760	1,326,109	\$1,611,305	1,230,436		46,947	48,726	.....	1,326,109	2,544	803	3,347	



*Kankakee County—First District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT of MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
	SHIPPING MINE.						
1	Consolidated Coal & Iron Co. B...	Reddick.....	350	160	.....	.....	190

Mines reported for 1904, 1.

Mines in 1905, 1.

*Kankakee County—First District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	700	\$1,003	350	.....	.....	350	30	700	9	14	23	1

*LaSalle County—First District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	LaSalle Co. Car. Coal Co., No. 1	LaSalle	5,377	108,320	30,363		34,621
2	LaSalle Co. Car. Coal Co., Union	do	816	87,104	41,003		33,677
3	Oglesby Coal Co., No. 1	Oglesby	11,277	95,148	13,482	5,671	15,783
4	LaSalle Co. Car. C. Co., LaSalle	LaSalle	5,378	64,839	46,407		31,106
5	LaSalle Co. Car. C. C., Rockwell	do	7,781	81,524	23,380		22,980
6	Acme Coal Co., Acme	Streator		75,004		6,383	33,540
7	Star Coal Co., No. 5*	do	850	93,130		2,234	36,863
8	Chi., Wilm. & Ver. Coal Co., No. 1	do		44,526	42,113		26,890
9	Mathiesson & Hegeler Zinc Co., M. and H.	LaSalle	101,685				
10	Illinois Zinc Co., No. 1	Peru	77,558				
11	Chi., Wilm. & Ver. Coal Co., No. 2	Streator		38,801	18,777		12,084
12	James Cahill Estate, No. 1	Peru		59,650			8,200
13	Mrs. E. Hakes, No. 2	Rutland	16,448	31,706			8,686
14	Howe Coal Co., No. 1	Streator	7,002	12,110			12,022
15	Star Coal Co., No. 4*	do		13,708		1,776	3,979
16	N. Wilmington Coal Co., No. 1	Seneca	11,169				
17	Louis Evans & Son, No. 1	Kangley	6,000	2,000			700
18	Farmers Fuel Co., No. 1*	Streator		378			188
Totals			251,339	807,948	217,527	16,064	281,329
LOCAL MINES.							
1	Marseilles Coal Mining Co., No. 1	Marseilles	24,721				
2	Mounts Bros., No. 1	Streator	5,952				
3	Jos. Sowerby & Co., No. 1	do	5,263				
4	Ed. Evans & Co., No. 1*	do	4,000				
5	William G. Francis, No. 1	do	3,160				
6	Evans Bros., No. 2	do	3,036				
7	Haar Bros., No. 2	do	3,000				
8	Mathew White, No. 1	Ottawa	2,250				
9	Nelson & Stokes	Streator	2,118				
10	William McMillen*	do	2,084				
11	Oscar Kimes	do	1,700				
12	William Voight	Leonore	1,500				
13	William Bottomley*	Lowell	815				
14	William Mertz	Ottawa	800				
15	John McNeil	Kangley	700				
16	Fred Brooker	Lowell	525				
17	L. D. Morse*	do	350				
18	Adam Crompton	Ottawa	300				
19	L. D. Brewer	do	250				
20	Geo. Steele*	do	225				
21	Chas. Hepp*	do	225				
22	James McCullough	do	200				
23	Howell & Baker*	do	180				
24	Chas. Hendee	do	125				
25	Ringer & Hostetter	do	125				
26	Daniel Vazaine	do	125				
27	Lockwood & Dietman*	Streator	123				
Totals			63,844				
Totals—45 mines			315,183	907,948	217,527	16,064	281,329

\*New Mine  
 Mines reported for 1901—41.  
 New Mines—11.  
 Abandoned mines—7.  
 Mines in 1905—45.

*LaSalle County—First District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	178,681	\$292,755	171,148	.....	1,759	5,774	206	178,681	355	163	518	1
.....	162,602	264,929	90,315	38,100	28,728	5,461	280	162,602	250	113	363	2
7,181	148,552	230,911	137,178	.....	4,193	7,181	256	148,552	212	96	308	3
.....	147,730	239,791	79,401	36,183	20,858	11,285	203	147,730	228	99	327	4
.....	137,665	228,403	137,556	.....	.....	109	202	137,665	216	84	300	5
22,119	137,046	169,715	105,695	.....	9,232	22,119	202	137,046	233	78	311	6
3,610	136,687	161,669	133,077	.....	.....	3,610	277	136,687	164	58	202	7
14,437	127,966	129,362	107,674	.....	1,098	19,194	261	127,966	222	79	301	8
.....	101,685	152,528	.....	999	4,798	95,888	237	101,685	65	31	96	9
.....	77,558	139,604	76,171	.....	404	983	301	77,558	102	59	161	10
3,185	72,847	84,234	60,333	.....	2,761	9,453	233	72,847	116	39	155	11
1,750	69,600	107,555	23,000	24,175	20,175	1,750	262	69,600	141	47	188	12
5,500	62,338	85,155	36,789	16,446	3,608	5,500	166	62,338	135	43	178	13
720	31,854	39,085	6,495	.....	23,638	721	235	31,854	38	12	48	14
.....	19,463	24,841	17,953	.....	1,510	.....	276	19,463	55	15	70	15
.....	11,169	21,221	7,185	.....	3,221	763	257	11,169	30	9	39	16
300	9,000	12,940	5,000	.....	4,000	.....	200	9,000	6	2	8	17
.....	566	899	100	.....	466	.....	150	566	4	1	5	18
58,802	1,633,009	\$2,385,567	1,196,873	115,903	130,442	189,791	232	1,633,009	2,570	1,008	3,578	
.....	24,721	\$51,914	.....	.....	24,721	.....	250	24,721	75	26	101	1
.....	5,952	11,904	.....	.....	5,952	.....	280	5,952	9	1	10	2
.....	5,263	7,631	.....	.....	5,263	.....	260	5,263	9	3	12	3
.....	4,000	7,000	.....	.....	4,000	.....	200	4,000	5	2	7	4
.....	3,160	5,540	.....	.....	3,160	.....	180	3,160	5	1	7	5
.....	3,086	6,679	.....	.....	3,086	.....	190	3,086	6	2	7	6
.....	3,000	4,850	.....	.....	3,000	.....	208	3,000	5	1	7	7
.....	2,250	5,063	.....	.....	2,250	.....	195	2,250	5	2	7	8
.....	2,108	3,900	.....	.....	2,108	.....	200	2,108	3	2	4	9
.....	2,064	4,166	.....	.....	2,064	.....	200	2,064	4	1	5	10
.....	1,700	2,450	.....	.....	1,700	.....	125	1,700	4	1	6	11
.....	1,500	3,000	.....	.....	1,500	.....	185	1,500	5	1	6	12
.....	815	1,630	.....	.....	815	.....	117	815	3	1	4	13
.....	800	1,600	.....	.....	800	.....	225	800	2	.....	2	14
.....	700	1,400	.....	.....	700	.....	150	700	2	.....	2	15
.....	525	1,050	.....	.....	525	.....	175	525	2	.....	3	16
.....	350	700	.....	.....	350	.....	110	350	2	.....	2	17
.....	300	600	.....	.....	300	.....	125	300	2	.....	2	18
.....	250	500	.....	.....	250	.....	120	250	2	.....	2	19
.....	225	450	.....	.....	225	.....	170	225	2	.....	2	20
.....	225	450	.....	.....	225	.....	185	225	2	.....	2	21
.....	200	400	.....	.....	200	.....	115	200	2	.....	2	22
.....	180	360	.....	.....	180	.....	120	180	1	.....	1	23
.....	125	250	.....	.....	125	.....	100	125	2	.....	2	24
.....	125	250	.....	.....	125	.....	95	125	1	.....	1	25
.....	125	250	.....	.....	125	.....	100	125	2	.....	2	26
.....	125	250	.....	.....	125	.....	100	125	2	.....	2	27
.....	63,844	\$124,429	.....	.....	63,844	.....	166	63,844	164	45	209	
58,802	1,696,853	\$2,509,996	1,196,873	115,903	194,286	189,791	.....	1,696,853	2,734	1,053	3,787	

*Livingston County—First District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Cardiff Coal Co. No. 2 .....	Cardiff .....	46,313	75,302	15,476	3,447	36,991
2	Johnson Coop. Coal Co. No. 1 .....	Fairbury .....	5,000	3,000	.....	500	500
3	Phoenix Coal & M. Co. No. 1 .....	Cornell .....	.....	5,926	.....	359	2,285
4	Marshall & Haar No. 1* .....	Streator .....	.....	1,500	.....	.....	600
Totals .....			51,313	85,728	15,476	4,306	40,376
LOCAL MINES.							
1	Coöperative Coal Co. No. 1 .....	Fairbury .....	12,566	.....	.....	.....	.....
2	Streator Clay Mfg. Co. No. 1 .....	Streator .....	11,510	.....	.....	.....	.....
3	Brady Coal Co. No. 1 .....	Pontiac .....	11,260	.....	.....	.....	.....
4	Munts Bros No. 2 .....	Streator .....	4,777	.....	.....	.....	.....
5	A. Anderson & Sons No. 1 .....	do .....	1,790	.....	.....	.....	.....
6	Streator Aqueduct Co. No. 1 .....	do .....	1,763	.....	.....	.....	.....
7	William McMillin No. 2 .....	do .....	1,486	.....	.....	.....	.....
8	Massey Bros. No. 1 .....	do .....	1,400	.....	.....	.....	.....
9	Ben Davis No. 1 .....	do .....	643	.....	.....	.....	.....
Totals .....			47,195	.....	.....	.....	.....
Totals—13 mines .....			98,508	85,728	15,476	4,306	40,376

\* New mine.  
Mines reported for 1904, 17.  
New mines, 1.  
Abandoned mines, 5.  
Mines in 1905, 13.

*Livingston County—First District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners	All other employes.	Total.	
.....	177,529	\$218,197	168,175	.....	4,439	4,915	207	177,529	221	109	330	1
.....	9,000	16,250	.....	7,000	2,000	.....	270	9,000	10	4	14	2
.....	8,570	13,762	8,000	.....	570	.....	138	8,570	20	12	32	3
.....	2,100	4,090	1,000	.....	1,100	.....	150	2,100	6	12	8	4
.....	197,199	\$252,299	177,175	7,000	8,109	4,915	191	197,199	257	127	384	
.....	12,566	\$25,132	.....	.....	12,566	.....	222	12,566	12	12	24	1
.....	11,510	23,020	.....	.....	11,510	.....	300	11,510	22	5	27	2
.....	11,260	16,890	.....	.....	11,260	.....	228	11,260	16	9	25	3
.....	4,777	7,357	.....	.....	4,777	.....	275	4,777	10	1	11	4
.....	1,790	3,133	.....	.....	1,790	.....	200	1,790	5	2	7	5
.....	1,763	2,133	.....	.....	1,763	.....	280	1,763	3	.....	3	6
.....	1,486	2,378	.....	.....	1,486	.....	200	1,486	8	1	9	7
.....	1,400	2,800	.....	.....	1,400	.....	180	1,400	6	1	7	8
.....	643	1,061	.....	.....	643	.....	130	643	3	1	4	9
.....	47,195	\$83,904	.....	.....	47,195	.....	224	47,195	85	32	117	
.....	244,394	\$336,203	177,175	7,000	55,304	4,915	.....	244,394	343	159	501	

*Will County—First District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Murphy, Keenan & Co. No. 3.....	Braidwood ...	97	41,030	.....	4,537	10,879
2	Wilm. Coal M. & Mfg. Co. No. 6.....	Diamond .....	.....	16,451	6,620	.....	3,341
3	Rixson Coal Co. No. 1.....	Braceville.....	100	10,800	.....	9,900	7,572
4	Joliet-Wilm. Coal Co. No. 1*.....	Braidwood ...	.....	4,700	.....	.....	1,600
Totals .....			197	72,981	6,620	14,437	23,392
LOCAL MINES.							
1	O'Connor & Co. No. 2.....	Braidwood....	6,000	.....	.....	.....	.....
2	Williamson & Holman No. 1*.....	do.....	624	.....	.....	.....	.....
Totals .....			6,624	.....	.....	.....	.....
Totals—6 mines.....			6,821	72,981	6,620	14,437	23,392

\* New mine.  
Mines reported for 1904, 4.  
New mines, 2.  
Abandoned mines, none.  
Mines in 1905, 6.

*Will County—First District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
1,500	58,043	\$32,318	50,719	.....	5,824	1,500	224	58,043	103	35	138	1
3,000	29,412	32,967	26,412	.....	.....	3,000	137	29,412	100	36	136	2
.....	28,372	30,840	24,014	.....	1,438	2,920	180	28,372	110	22	132	3
.....	6,300	9,511	5,350	.....	250	700	120	6,300	52	22	74	4
4,500	122,127	\$155,636	106,495	.....	7,512	8,120	160	122,127	365	115	480	
.....	6,000	\$15,000	.....	.....	6,000	.....	180	6,000	10	1	11	1
.....	624	1,716	.....	.....	624	.....	52	624	6	2	8	2
.....	6,624	\$16,716	.....	.....	6,624	.....	116	6,624	16	3	19	
4,500	128,751	\$172,352	106,495	.....	14,136	8,120	.....	128,751	381	118	499	



*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Average value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy.....	12	1,299,247	1,157	834,332	100,157	31,542	286,299	25,760	\$1,541,722
Kankakee.....	1	700	350	160	.....	.....	190	.....	1,003
LaSalle .....	18	1,633,009	231,339	807,948	217,527	16,064	281,329	53,802	2,885,567
Livingston .....	4	197,199	51,313	85,728	15,476	4,306	40,376	.....	252,299
Will .....	4	122,127	197	72,981	6,620	14,437	23,392	4,500	155,636
Totals and averages	39	3,252,282	304,356	1,821,149	339,780	66,349	631,586	89,062	\$4,336,227

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Average value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Grundy.....	12	26,862	26,862	.....	.....	.....	.....	.....	\$ 69,583
LaSalle .....	27	63,844	63,844	.....	.....	.....	.....	.....	124,429
Livingston .....	9	46,195	47,195	.....	.....	.....	.....	.....	83,904
Will.....	2	6,624	6,624	.....	.....	.....	.....	.....	16,716
Totals and averages	50	144,525	144,525	.....	.....	.....	.....	.....	\$294,632
Totals, district—all mines.....	89	3,396,807	448,881	1,821,149	339,780	66,349	631,586	89,062	\$4,630,859

Whole number of mines reported in 1904, 83.  
 Number of new mines opened during the year, 17.  
 Number of mines abandoned during the year, 16.  
 Whole number of mines reported for 1905, 89.

*First District—1905—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.
2,462	789	3,251	1,230,436	.....	20,085	48,726	219	1,299,247	.....	\$0.84	.....
9	14	23	350	.....	.....	350	30	700	.....	0.61	.....
2,570	1,008	3,578	1,196,873	115,908	130,442	189,791	232	1,633,009	.....	0.742	.....
257	127	384	177,175	7,000	8,109	4,915	191	197,199	.....	0.61	.....
365	115	480	106,495	.....	7,512	8,120	160	122,127	.....	0.84	.....
5,663	2,053	7,716	2,711,329	122,903	166,148	251,902	216	3,252,282	.....	\$0.7769	.....

*First District—1905—Local Mines..*

EMPLOYEES.			DISPOSITION OF OUTPUT.					HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.
82	14	96	.....	.....	26,862	.....	210	26,862	.....	\$0	.....
164	45	209	.....	.....	63,844	.....	166	63,844	.....	0.90	.....
85	32	117	.....	.....	47,195	.....	224	47,195	.....	*0.636	.....
16	3	19	.....	.....	6,624	.....	116	6,624	.....	1.00	.....
347	94	441	.....	.....	144,525	.....	185	144,525	.....	\$0.8199	.....
6,010	2,147	8,157	2,711,329	122,903	310,673	251,902	.....	3,396,807	.....	.....	.....

\*13,073 tons mined at \$2.42 per day.

## SECOND INSPECTION DISTRICT—1905.

### TWENTY-SECOND ANNUAL REPORT.

Counties—Bureau, Henry, Knox, Marshall, Mercer, Putnam, Rock Island, Stark, Warren.

THOMAS HUDSON, *Inspector*, Galva.

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with section 12 of an act of the General Assembly of Illinois, defining and setting forth the duties of State inspectors of coal mines, and providing for the better preservation of the health, safety and comfort of persons employed in the coal mines of Illinois, I have the honor of herewith submitting to you, the twenty-second annual report of the coal mines located in the second inspection district, comprising the coal producing counties of Bureau, Henry, Knox, Marshall, Mercer, Putnam, Rock Island, Stark and Warren.

The tabular information contained in this report gives all the necessary information in regard to the number of mines, miners and other employes; the various grades of coal produced and the number of tons of each, with the selling price thereof, per ton at the mine; the disposition of the product of the mines is given, whether shipped by rail, sold to local consumers, or used for steam producing purposes at the mines; the amount of powder and dynamite used at the mines is given, with a full statement of all fatal and non-fatal accidents, ratios, averages and percentages.

The following summary for the district is presented for the year ended June 30, 1905:

Number of shipping mines .....	29
Number of mines in local trade only .....	149
Total number of mines .....	178
Number of miners employed .....	5,759
Number of others employed underground .....	1,176
Number of boys underground .....	190
Number employed on the surface .....	636
Total number of employes .....	7,761
Number of kegs of powder consumed, for all purposes .....	45,496
Tons of lump coal produced .....	2,286,753
Tons of all other grades, combined .....	925,970
Total product in tons of 2,000 pounds .....	3,212,723
Tons shipped on cars at mines .....	2,665,765
Tons sold to local consumers, shipping mines .....	89,641
Tons sold to local consumers, local mines .....	285,154
Total tons to local trade .....	354,795
Tons used for steam purposes—at mines .....	134,500
Tons supplied to locomotives—at mines .....	57,804
Aggregate value of the total product .....	\$4,611,234
Number of fatal accidents .....	14
Number of non-fatal accidents .....	83
Total number of accidents .....	97
Number of employes to each fatal acci <sup>d</sup> .....	554

Number of employes to each non-fatal accident .....	94
Tons of coal produced to each fatal accident .....	229,480
Tons of coal produced to each non-fatal accident .....	38,708
Tons of coal produced to each miner employed .....	558
Tons of coal produced to each employe—all classes .....	414
Ratio of fatal accidents per 1,000 persons employed .....	1.8
Ratio of non-fatal accidents per 1,000 persons employed .....	10.7

The following comparative table shows the product in tons of the different coal producing counties in the district, for the years ended June 30, 1904 and 1905.

COUNTIES.	TOTAL PRODUCT OF ALL GRADES OF COAL—IN TONS.		Increase.	Decrease.
	1904.	1905.		
Bureau .....	1,832,577	1,751,875		80,702
Henry .....	151,887	159,019	7,132	
Knox .....	89,992	68,981		21,011
Marshall .....	476,239	510,968	34,729	
Mercer .....	601,508	544,220		57,288
Putnam .....		42,964	42,964	
Rock Island .....	91,798	78,784		13,009
Stark .....	61,040	38,431		22,609
Warren .....	17,454	17,486	32	
Totals .....	3,322,490	3,212,728	84,857	194,619

Net decrease, 109,762 tons.

The counties of Henry, Marshall, Putnam and Warren show a combined gain of 84,857 tons over the year previous, while the counties of Bureau, Knox, Mercer, Rock Island and Stark combined show a loss of 194,619 tons, leaving a net loss for the district, compared with the year previous, of 109,762 tons. Putnam county enters into the computation this year, for the first time, having gone into the coal producing list by the opening of the St. Paul Coal Company's mine at Granville.

#### NEW MINES.

Two mines of the shipping class have gone into operation during the year. The Atlas Coal Co.'s shaft No. 2, located at Galva, Henry county, went into operation Sept. 15, 1904. It is connected by switch to the C., R. I. & P. R. R.

The St. Paul Coal Co.'s shaft No. 1, located at Granville, Putnam county, went into active operation March 9, 1905. It is connected by switch with the C. M. & St. P. R. R., over which the product of the mine will be carried. This mine is of the first class. A substantial steel tower has been erected; winding engines, of the Litchfield type, have been set up, with cylinders 24 inches in diameter and 42-inch stroke, drum, 8 feet in diameter. The engine is direct acting, or first motion. A battery of four boilers has been put in, the boilers are 60 inches in diameter and 16 feet long, in fact no expense has been spared. The main object has been to make the machinery and equipment first class in every particular.

#### ABANDONED MINES.

One mine only of the shipping class has been abandoned during the year. The Alden Coal Co.'s mine No. 2, located at Wanlock, Mercer county, has been worked, and abandoned June 30, 1905.

## CONDITIONS OF THE COAL TRADE, PROSPECTIVE MINES, IMPROVEMENTS.

The year ending June 30, 1905, when compared with the five or six years previous, has been an extremely dull one for miners and operators alike.

In the second district, the mines have been in operation a less number of days than any year since 1899; about 400 more employes have been engaged at the mines this year than last, but nearly 110,000 tons less of coal have been produced. This, added to the fact that both the mining and selling price of coal has been less per ton, it requires no stretch of the imagination to see that the financial condition of both operator and employes, during the year, in a comparative sense, has not been propitious, to say the least.

Notwithstanding the rather depressed condition of the coal trade, one new mine, at least, is being developed, which, in a short time, will materially increase the output of the district. The St. Paul Coal Co., located at Cherry, a new mining town, three miles north of Ladd, in Bureau county, has completed the sinking of both main and escapement shafts, and the shafts are already connected underground. Seam No. 2, known locally as the La Salle third vein, was pierced at a depth of 487 feet from the surface. The seam is three and one-half feet thick, with conditions excellent for long-wall mining. In sinking these shafts, however, seam No. 6 was struck at a depth of 317 feet from the surface. This seam is five feet in thickness, of seeming good quality and comparatively free from "clay slips," "horsebacks," and other irregularities so prevalent in this seam, but conditions are very favorable for the "room and pillar" system of mining. This seam, No. 6, known locally as the second vein, is being opened out on the "room and pillar" system. A steel tower is being erected; Litchfield engines—direct acting—cylinders 24x42 inches with an 8-foot drum, a battery of four boilers, 72 inches in diameter and 18 feet long, are already in position, and in a few months Bureau county will have another first class coal mine in active operation.

Among the many improvements that have been made in the district during the year, might be mentioned the very complete auxiliary air and escape shaft, 195 feet deep, sunk by the Coal Valley Mining Company at Sherrard, Mercer county.

## ESCAPEMENT SHAFTS.

The following escapement shafts, with the name of the operator, location of the mine, and the depth thereof in feet, have been sunk during the year ended June 30, 1905:

OPERATOR.	Location.	County.	Depth in feet.
Atlas Coal Co., No. 2.....	Galva.....	Henry.....	61
Bates Bros.....	Kewanee.....	do.....	55
Stoddard & Summerson.....	Coal Valley.....	Rock Island.....	35
Etherly Coal Co., No. 3.....	Etherly†.....	Knox.....	57
North Main Coal Co.....	Kewanee.....	Henry.....	35
St. Paul Coal Co., No. 2.....	Cherry.....	Bureau.....	486
Coal Valley Mining Co., No. 2.....	Sherrard†.....	Mercer.....	195
Frank Barr, No. 2.....	Spartland.....	Marshall.....	13
W. E. Frisbey.....	do.....	do.....	24
Oscar Bass.....	Wyoming.....	Stark.....	10
Jesse Savill.....	do.....	do.....	40
John S. Taylor.....	Neponset.....	do.....	50
Nicholas Peterson*.....	Bradford.....	do.....	112

\* NOTE—This escapement shaft was sunk, but underground connections with the main shaft had not been made Aug. 1, 1905.

† Auxiliary.

## FATAL ACCIDENTS.

The following is a statement in detail of the fatal accidents that have occurred in the second inspection district, during the year ended June 30, 1905.

Aug. 1, 1904. Benjamin Clina, miner, aged seventeen years, single, was severely burned and bruised by an explosion of powder in the Alden Coal

Company's mine, No. 4, located near Viola, Mercer county. Deceased was working in partnership with his grandfather. On the Saturday evening previous a blast had been prepared but missed fire, or failed to explode; the first act of the young man Monday morning following, was to commence drilling out the missed shot, using a common steel pointed churn drill. When the work had progressed far enough to reach the powder, the drill undoubtedly struck a piece of sulphur on the side of the drill hole; this generated a spark and an explosion as a matter of course followed, burning him severely on the face, breast and arms. The force of the explosion threw him ten or twelve feet across the room, breaking his leg and otherwise severely bruising him. He died, from the injuries received, twelve hours after the accident.

Aug. 10, 1904. Joseph Ferrari, miner, aged forty-one years, was severely crushed on the head and body by a fall of coal at the face of his working room, in the Illinois Third Vein Coal Company's mine No. 1, Ladd, Bureau county. Deceased was working with his partner and was in the act of taking down a fall of coal when a large mass, weighing about two tons, came down suddenly, crushing him against the pack-wall or building. He died from the injuries sustained forty-eight hours after the accident. He leaves a widow and four children in Italy.

Sept. 26, 1904. B. Angilo, miner, aged forty-two years, married, was severely crushed internally by a fall of coal at the face of his working room in shaft No. 2, operated by the Spring Valley Coal Company, Spring Valley, Bureau county. Deceased was in the act of taking out a sprag to let down a fall of coal when a large piece weighing about one ton fell suddenly and caught him against a standing prop. He was removed to the hospital and died from the injuries received October 11, about fifteen days after the accident. He leaves a widow and two children in Italy.

Oct. 19, 1904. Joseph Benedetti, miner, aged thirty-five years, single, and Louis Paganessi, miner, aged forty years, married, were both killed instantly by being struck with the descending cage while attempting to climb to the top of the main shaft of the Marquette Coal Company, Marquette, Bureau county. The two men who lost their lives by this accident were Italians, and had been in the employ of the company about six weeks. It is customary for the men to come out of the mine from 4:00 to 4:30 o'clock, but these two men did not come out this day until about 6:00 o'clock. On their way to the bottom of the shaft, they passed some workmen making repairs on the roadway and were informed by them to wait a short time and they would have company as one of their number was going up the shaft for something that was needed on the repairs being made. They paid no attention to this advice, probably because of their ignorance of the English language, but passed on to the bottom of the main shaft, passing on their way the opening which led to the escapement in which was a proper stairway. Without notifying the engineer by signal they commenced climbing the buntons in the main shaft and when about 140 feet from the bottom the engineer, not knowing any one was making such an attempt, run the east cage down to take the water out of the cylinders, as a party intended going down; he felt a slight resistance or jar to the descending cage at a certain point, about 140 feet from the bottom. It was at this point the men, in all probability, were struck and hurled to the bottom. Their bodies were found about an hour later in the sump or cage seat at the bottom of the shaft. Paganessi leaves a widow and one child in Italy.

Dec. 10, 1904. James Gregg, stationary engineer, aged fifty-five years, married, had his skull fractured by being struck with the hauling rope of the local coal chute incline at the Spring Valley Coal Company's shaft No. 1, Spring Valley, Bureau county. Deceased was operating the stationary engine, used to haul the coal, sold to local consumers, up an incline plane to where the wagons are loaded; the car is hauled by the main rope system; then the engine is thrown out of gear and the empty car runs down the incline by force of gravity, controlled by a brake on the drum. The bolt or pin in the fulcrum broke, which rendered the brake useless, and the car, quite naturally, ran away, causing the rope to vibrate violently. Deceased was in all proba-

bility struck by the vibrating rope, and thrown against the brake band and from there to the floor where he was found a few minutes later. He did not regain consciousness and died fifty hours later. He leaves a widow and three children.

Jan. 6, 1905. John N. Gavin, miner, aged forty years, married was severely crushed by a fall of roof at the face of his working room in the Wyoming Coal Company's mine, Wyoming, Stark county. Deceased and his partner were working a room. Gavin was in the act of loading a car with coal, when a large mass of roof seven feet long and nearly five feet wide, with an average thickness of six inches, suddenly fell crushing him underneath. He died one hour after the accident. He leaves a widow and three children.

Jan. 18, 1905. Mathias Hoge, miner, aged fifty years, widower, was severely crushed by a fall of roof at the face of his working room, in the Wenona Coal Company's mine, Wenona, Marshall county. Deceased with his partner was at work in a room and had passed through a fault, which had destroyed the uniformity of the roof, and left it in a loose, broken and dangerous condition. A large mass of the roof suddenly fell without warning, crushing him underneath. The weight of the mass was about one and one-half tons; he died about thirty minutes after the accident. He is reported to have five children in Austria.

January 26, 1905. Enoch Stone, miner, aged 32 years, married, was killed instantly by a fall of roof, at the face of his working room, in the Coal Valley Mining Co's. shaft No. 2, Sherrard, Mercer county. Deceased was working alone in a room; shortly after 3 o'clock p. m., several miners working near by heard a heavy fall, but, assuming it was top coal, paid no attention to it. As none of those working near saw nor heard him for nearly half an hour, they went into his room to investigate, and found him under a heavy fall of roof, dead. The mass that fell was fifteen feet long and twelve feet wide, with an average thickness of three inches. He leaves a widow and two children.

February 8, 1905. James Reid, sinker, aged 27 years, single, was killed by being struck on the head with a sinking bucket, in the new shaft being sunk by the St. Paul Coal Co., Cherry, Bureau county. Deceased was at work at the bottom of the shaft, 230 feet from the surface; the top of the shaft was protected by the usual folding doors, with two topmen in attendance. The empty bucket had been lifted from the doors, and the top-man in charge of the signals had raised his half of the doors, the other attendant had not gotten his half raised, when the signal was given to the engineer to lower; the bottom of the bucket struck on the edge of the half raised door, tipped over, and the safety hook, so called, became detached, the bucket falling to the bottom of the shaft, with the result as stated.

February 27, 1905. Lolli Telespero, miner, aged 44 years, married, was killed instantly by a fall of coal at the face of his working place in shaft No. 1, of the Spring Valley Coal Co., Spring Valley, Bureau county. Deceased was in his regular working place and in the act of cutting a sprag to let down the coal, when a large mass of coal and roof suddenly fell, crushing his head. The mass of coal and roof that fell would weigh about one ton. He leaves a widow and six children.

March 1, 1905. Frank Romesburg, driver, aged 27 years, married, was severely crushed by falling in front of a trip of loaded pit cars, in the Empire Coal Co's. mine, No. 3, Gilchrist, Mercer county. Deceased was coming out of the main north entry with a trip of six loaded pit cars, riding on the tail chain and draw-bar of the front car—a customary but very dangerous proceeding—when by some means he lost his footing and fell in front of the trip. One car passed over him, and he was found under the second one. He died twenty hours after the accident. He leaves a widow and one child.

April 12, 1905. M. L. Kearns, miner, aged 66 years, married, received a severe jar by the cage, on which he was coming up the shaft, dropping about thirty feet to the bottom, in Ed. Donahue's local mine, near Sheffield, Bureau county. Deceased and another miner were coming up the shaft, which is seventy-five feet deep and operated by horse power; the descending cage stuck in the shaft, and the gin-horse kept going; this caused the rope on the *drum to drop down* on the spindle, and the ascending cage, on which the men

were, dropped slowly to the bottom of the shaft, injuring the foot and leg of Kearns, the other man on the cage was not injured. Kearns did not seem badly hurt, but in about six days pneumonia set in, and he died ten days after the accident. The opinion of a physician was that the shakeup to the system by the cage dropping, was a potent factor in setting up the pneumonia, therefore, this is given as a fatal accident, due to injuries received in a coal mine. He leaves a widow but no minor children.

June 28, 1905. A. B. Moore, miner, aged 36 years, married, was killed instantly by being struck on the head with coal flying from a blast, in the Alden Coal Co's. mine, No. 2. Wanlock, Mercer county. Deceased, with his partner, was driving an entry north, coming towards them from the south was a room, to be used as an air course, when connection was made. These places had come so close together that the mine manager, fearing that one or the other might blow through, had given orders to the miner driving south not to fire his shots, but leave them ready, and company men would fire them after quitting time. The last named miner disregarded the orders, and agreed with deceased to give him due notice before lighting his shot, the intervening coal had become so thin that they could talk to each other. Both parties prepared their shots, the miner driving south gave the usual signal that he was going to light his shot, and did so. The flame from his shot evidently exploded the powder in the hole coming from the opposite direction, tearing off the heel of the shot in the entry, and coal flying therefrom, struck deceased. He leaves a widow and one child.

Following are the usual tables and schedules for each county in the second inspection district.

Respectfully submitted,

THOMAS HUDSON,  
*State Inspector of Mines, Second District, Galva, Ill.*



*Fatal Casualties—Second District—July 1, 1905.*

DATE.	NAME.	Age.	Occupation.	Residence (Town.)	Married.	Widow.	Children.	Single.	Persons dependent.	Cause of Accident.
1904.										
Aug. 1	Benjamin Clina	17	Miner	Wanlock				1		Blast explosion
10	Jos. Ferrari	41	do	Ladd	1	1	4			5 Falling coal
Sept. 26	B. Angilo	46	do	Spring Val'y	1	1	2			3 Falling coal
Oct. 19	Jas Benedetti	35	do	Marquette				1		Descending cage
19	Louis Paganessi	40	do	do	1	1	1			2 Descending cage
Dec. 10	James Gregg	55	Engineer	Spring Val'y	1	1	3			4 Hauling rope
1905.										
Jan. 6	John N. Gavin	40	Miner	Wyoming	1	1	3			4 Falling roof
18	Mathias Hoge	50	do	Wenona			5	1		5 Falling roof
26	Enoch Stone	32	do	Sherrard	1	1	2			3 Falling roof
Feb. 8	James Reid	27	Sinker	Cherry				1		Falling sink'g bucket
27	Lolli Tellespero	44	Miner	Spring Val'y	1	1	6			7 Falling coal
March 1	Frank Romesburg	27	Driver	Gilchrist	1	1	1			2 Pit car
April 12	M. L. Kearns	66	Miner	Sheffield	1	1	1			1 Dropping cage
June 28	A. B. Moore	36	do	Wanlock	1	1	1			2 Flying coal
Total 14					10	10	28	4	38	

*Recapitulation of Fatal Accidents—Second District—1905.*

RESIDENCE.	No.	Occupation.	No.	Nature of casualty	No.	Colliery.	No.
Cherry	1	Driver	1	Explosion	1	Alden Coal Co.	2
Gilchrist	1	Engineer	1	Falling with cage	1	Coal Valley Mining Co.	1
Ladd	1	Miners	11	Flying coal	1	Donahues' local mine	1
Marquette	2	Sinker	1	Pit car	1	Empire Coal Co.	1
Sheffield	1			Falling coal	3	Ill. 3d Vein Coal Co.	1
Sherrard	1			Falling roof	3	Marquette 3d Vein C. Co	2
Spring Valley	3			Descending cage	2	St. Paul Coal Co.	1
Wanlock	2			Dropping sinking bucket	1	Spring Valley Coal Co.	3
Wenona	1			Hauling rope	1	Wenona Coal Co.	1
Wyoming	1					Wyoming Coal Co.	1
Totals	14		14		14		14

## Non-Fatal Casualties—Second District—July 1, 1905.

DATE.	NAME.	Age.	Residence. (Town)	Married.	Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1904.									
July	9 Chas. Visknowski	36	Spring Valley	1		2	3	Chest injured, falling roof	32
	9 Louis Kassino	40	Toluca	1		3	4	Collar bone brk'n, fall'g c'l	60
	14 Dom. Moreski	25	do	1	1			Collar bone brk'n, fall'g c'l	45
	15 Anton Gustaitus	50	Spring Valley	1		2	3	Foot injured, falling roof	61
	21 Wm. Link	44	do	1		4	5	Eye injured, falling roof	62
	25 Adolph Rasponi	35	Toluca	1		2	3	Finger broken, falling coal	30
	29 Nick Frillett	28	Spring Valley	1		2	3	Foot injured, pit car	87
	29 James Manahan	29	Ladd	1				Foot injured, pit car	30
Aug.	1 A. L. Stickle	30	Soperville	1		4	5	Ankle injured in rope coil	45
	6 George Simpson	18	Spring Valley	1				Foot crushed, falling roof	*
	11 Chas. Amerilane	28	Seatonville	1	1	2		Hip injured, falling coal	60
	19 Jule Boletti	27	Spring Valley	1				Leg injured, falling roof	38
	19 John Peco	52	do	1		7	8	Hand injured, falling coal	38
	30 Peter Asticker	37	Toluca	1		4	5	Leg broken, fall'g roof	*
	31 John Beveridge	58	Sherrard	1			1	Back injured, falling roof	60
Sept.	14 Henry Cox	48	Spring Valley	1		3	4	Back injured, falling coal	40
	15 John Riley	30	Toluca	1				Foot injured, rusty nail	120
Oct.	3 Ricci Berti	24	Seatonville	1		1	2	Toes crushed, pit car	41
	7 Geo. Arbuckle	50	Spring Valley	1		4	5	Ribs broken, falling roof	73
	10 Richard Clark	30	Seatonville	1		1	2	Body injured, pit car	31
	16 James Steele	38	Cherry	1		2	3	Eye cut, flying spike	70
	19 Joe Demara	40	Spring Valley	1		2	3	Leg injured, falling coal	30
	22 Dominic Valle	31	Dalzell	1		2	3	Foot injured, falling coal	72
	25 Peter Flock	23	Spring Valley	1				Toe broken, pit car	54
	29 Michael Michele	44	Toluca	1		5	6	Collar bone brk'n, fall'g c'l	40
	31 John Fay	30	do	1				Coll. bone brk'n, fall'g tow'r	150
Nov.	5 George Miller	16	Spring Valley	1				Hand injured, pit car	45
	7 Chas. Scovenski	36	do	1				Foot injured, falling roof	60
	9 Chas. Simes	23	do	1				Toes injured, pit car	41
	10 Sam Vinjick	40	Wenona	1		2	3	Leg broken, falling roof	*
	10 Robert Robertson	22	Viola	1				Body injured by pit car	
	12 Lars Minnix	26	Toluca	1				Finger cut off, falling roof	33
	16 John Ruffing	22	Dalzell	1		1	2	Back injured, pit car	54
	23 Martin Alsio	50	Spring Valley	1		5	6	Head injured, falling roof	30
Dec.	2 Eliro Balmeriw	22	Ladd	1		1	2	Ribs broken, pit car	70
	6 Wm. Ranch	44	Spring Valley	1		10	11	Finger cut off, pit car	72
	6 Mike Gambo	35	do	1		3	4	Foot injured, falling roof	47
	9 Walenty Filear	32	Toluca	1		3	4	Leg broken, falling coal	*
	10 John Reed	50	Seatonville	1		6	7	Foot injured on nail	57
	14 James Clinton	19	Spring Valley	1				Body injured, pit car	37
	16 Robert Williams	40	Seatonville	1		1	2	Head inj'd, fall'g into tr. pit	51
	27 Aug. Mazzinilla	20	Wenona	1				Leg bruised, falling roof	35
	31 Louis Gurene	42	Ladd	1		4	5	Body injured, falling roof	112
1905.									
Jan.	3 Pat Eyaic	52	Spring Valley	1		2	3	Rib broken, falling coal	72
	4 Robt. Purdie	26	Ladd	1		2	3	Shoulder broken, pit car	60
	5 Frank Locust	38	Spring Valley	1				Ankle injured, falling coal	33
	7 Vincenzo Peradotte	40	do	1		2	3	Ankle injured, falling roof	52
	7 Chas. Smarduk	21	do	1				Body injured, pit car	52
	11 August Schmidt	21	Kewanee	1				Leg broken, falling roof	60
	14 Anton Yuponsk	32	Dalzell	1		2	3	Body injured, falling from top landing	37
	23 James Murphy	29	Spring Valley	1				Head injured, pit car	119
	27 Ed. Alosinski	24	do	1				Finger injured, cage	124
Feb.	4 John Chonoski	30	do	1		4	5	Leg injured, pit car	90
	6 George Smith	16	Viola	1				Leg broken, pit car	40
	10 Martin Banitus	41	Dalzell	1		2	3	Body injured, pit car	30
	18 Wm. Alard	40	Kewanee	1		3	4	Shoulder fract'd, fall'g r'f	50
	25 Dom. Passino	40	Ladd	1		4	5	Leg broken, falling roof	52
Mar.	2 Louis Youik	28	Seatonville	1				Body injured, falling coal	91
	2 Wm. Bisky	28	Dalzell	1		2	3	Ankle injured, pit car	31
	4 Chas. Baladino	23	Seatonville	1				Leg broken, pit car	91
	4 John Libernock	22	Dalzell	1		1	2	Ankle injured, falling roof	89
	6 Alex. Kalravitch	36	Spring Valley	1		6	7	Shoulders injured, fall'g roof	50
	6 Simon Shinaki	32	do	1				Ankle crushed, falling coal	116
	8 James Gallagher	40	Seatonville	1				Head injured, falling roof	30
	11 Joe Smalski	42	Spring Valley	1		1	2	Body injured, falling roof	30
	18 Louis Dhesse	50	do	1		2	3	Back injured, falling coal	38
	22 Mat. Aldakowski	21	do	1				Back injured, pit car	*
	31 Henry Frank	74	Spariland	1		1	2	Shoulder crush'd, fall'g coal	*



*Table Showing List of Non-Fatal Casualties, Nature of Injuries,  
Time Lost and Percentages—Second District—July 1, 1905,*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Percent of injuries.
					Total Days.	Average Days.	
Ankles injured .....	6	4	2	13	366	61.00	7.23
Arm broken .....	1		1		45	45.00	1.20
Backs injured .....	6	5	1	13	222	44.40	7.24
Bodies injured .....	12	6	6	20	603	54.82	14.46
Breast injured .....	1	1		3	32	32.00	1.20
Collar bones broken .....	4	2	2	10	295	73.75	4.82
Eyes injured .....	2	2		8	132	66.00	2.41
Finger broken .....	1	1		3	30	30.00	1.20
Fingers cut off .....	2	1	1	11	105	52.50	2.41
Finger injured .....	1		1		124	124.00	1.20
Feet injured .....	12	6	6	28	689	60.82	14.46
Hands injured .....	2	1	1	8	81	40.50	2.41
Heads injured .....	6	3	3	13	264	44.00	7.24
Hip injured .....	1	1		2	60	60.00	1.20
Legs broken .....	8	5	3	21	243	60.75	9.64
Legs injured .....	5	2	3	8	223	44.60	6.02
Ribs broken .....	4	4		13	255	56.75	4.82
Shoulders broken .....	2	2		7	110	55.00	2.41
Shoulders injured .....	3	3		12	83	41.50	3.61
Toes broken .....	2	1	1	5	88	44.00	2.41
Toes injured .....	2	1	1	2	82	41.00	2.41
Totals .....	83	51	32	198	4,112	55.50	100.00

*Bureau County—Second District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or Screenings.
SHIPPING MINES.							
1	Illinois Third Vein Coal Co. No. 1	Ladd	16,182	211,748			43,158
2	Spring Valley Coal Co. No. 2	Spring Valley	20,150	199,716			41,074
3	Spring Valley Coal Co. No. 4	do	13,512	182,434			49,682
4	Spring Valley Coal Co. No. 3	do	11,930	191,644			37,684
5	Marquette 3rd Vein Coal Co. No. 1	Marquette		185,893	13,480	336	37,980
6	Spring Valley Coal Co. No. 1	Spring Valley	20,875	178,088			36,610
7	Spring Valley Coal Co. No. 5	do	16,632	182,232			30,277
Totals			99,281	1,331,745	13,480	336	276,485
LOCAL MINES.							
1	Ed Donahue	Sheffield		6,160			730
2	William Brandt	Mineral		5,680			300
3	Nelson & Scott	Sheffield		2,690			
4	Wm. Smith	Princeton		2,600			76
5	A. G. Norien	Sheffield		2,442			
6	Thos. Herrington	Princeton		2,096			
7	John Duncan	Sheffield		1,504			
8	Jas. Kemmerling	do		960			250
9	George Heathcock	Princeton		1,082			
10	A. W. Walton	do		894			
11	C. W. Riley	Sheffield		800			
12	J. P. Nelson*	do		720			
13	Chas. Gotheridge	do		420			
14	E. B. Goldsmith*	do		408			
Totals				28,456			1,356
Total—21 mines			99,281	1,360,201	13,480	336	277,841

\*New mines.  
 Mines reported for 1904, 23.  
 New mines, 2.  
 Abandoned mines, 4.  
 Mines in 1905, 21.

*Bureau County—Second District—1905—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employés.	Total.	
.....	271,088	\$388,156	242,278	9,116	5,198	14,496	259	271,088	509	164	673	1
.....	260,940	384,602	234,768	14,254	.....	11,918	193	260,940	539	168	707	2
.....	245,658	351,267	230,145	.....	4,439	11,074	289	245,658	428	238	664	3
736	242,340	357,501	233,900	.....	.....	8,440	187	242,340	544	147	691	4
.....	237,323	358,975	220,366	.....	2,506	14,451	225	237,323	400	115	515	5
.....	235,573	347,333	208,915	.....	17,769	8,889	173	235,573	514	187	681	6
.....	229,141	343,963	221,426	.....	1,650	6,065	232	229,141	394	119	513	7
736	1,722,063	\$2,531,797	1,391,798	23,370	31,562	75,333	220	1,722,063	3,326	1,118	4,444	
.....	6,890	\$13,415	.....	.....	6,890	.....	285	6,890	14	1	15	1
.....	5,980	10,090	.....	.....	5,780	200	276	5,980	10	1	11	2
.....	2,766	5,494	.....	.....	2,766	.....	270	2,766	5	1	6	3
.....	2,600	5,200	.....	.....	2,600	.....	200	2,600	7	1	8	4
.....	2,442	4,274	.....	.....	2,442	.....	250	2,442	5	1	6	5
.....	2,096	4,192	.....	.....	2,096	.....	180	2,096	5	1	6	6
.....	1,504	3,008	.....	.....	1,504	.....	200	1,504	5	1	6	7
.....	1,210	1,805	.....	.....	1,010	200	170	1,210	3	1	4	8
.....	1,082	2,164	.....	.....	1,082	.....	200	1,082	3	1	4	9
.....	894	1,788	.....	.....	894	.....	200	894	3	1	4	10
.....	800	1,400	.....	.....	800	.....	107	800	4	1	5	11
.....	720	1,260	.....	.....	720	.....	100	720	4	1	5	12
.....	420	630	.....	.....	420	.....	150	420	2	1	3	13
.....	408	714	.....	.....	408	.....	52	408	5	1	6	14
.....	29,812	\$55,434	.....	.....	29,412	400	187	29,812	75	14	89	
736	1,751,875	\$2,587,231	1,591,798	23,370	60,974	75,733	.....	1,751,875	3,401	1,132	4,533	

## Henry County—Seconia District—1905.

OUTPUT OF MINE							
Number.	NAME OF OPERATOR.	Post-office address of mine.	Mine run.	OUTPUT OF MINE			
				Lump.	Reg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Kewanee Coal Co. No. 1	Kewanee	26,580	31,852			16,622
2	Atlas Coal Co. No. 16*	Galva		8,440			600
3	Briar Bluff Mining Co.	Briar Bluff		1,324			200
Totals			26,580	41,616			17,422
LOCAL MINES.							
1	Herdien Coal Co., No. 16.	Galva		15,100			600
2	Newman Co. operative Coal Co.	Kewanee		9,032			500
3	Dixon & Martin	do		4,708			
4	Kewanee Mining and Mfg. Co.	do		2,480			1,640
5	John Becker & Son	do		3,154			870
6	Emil Ahlgren.	do		3,200			800
7	W. G. Kay	Atkinson		2,874			800
8	Fred Henry	Kewanee		3,320			200
9	Hates Bros.	do		3,350			100
10	James Fairlie.	Cambridge.		2,344			670
11	Matt. Atkinson	Kewanee		2,883			
12	Hartman & Beecroft.	Atkinson		2,300			570
13	E. W. Wells	Briar Bluff		2,800			
14	Ab. Hodgett	Kewanee		1,700			
15	North Main Coal Co.*	do		1,106			300
16	Max Groy*	do		1,200			120
17	J. Kincaid*	Briar Bluff		1,200			
18	Ben. Price	Kewanee		1,040			
19	Jeff. Glenn*	Colona		848			
20	George Martin*	Kewanee		672			
21	Joseph Carter	do		504			
22	R. E. Maloen	do		416			
23	Griffin & Kershaw*	Briar Bluff		400			
24	Leo Maloen	Kewanee		360			
25	G. I. Wilson	do		340			
26	Arthur Wimer*	Gepesco.		268			60
27	Wm. Lamb*	Kewanee		258			
28	M. W. Posten & Son*	Coal Valley		254			
29	Richard Golden	Kewanee		60			
Totals				68,171			7,280
Totals—32 mines.			26,580	109,787			24,682

\*New mines.  
 Mines reported for 1904, 29.  
 New mines, 10.  
 Abandoned mines, 7.  
 Mines in 1905, 32.

*Henry County—Second District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
.....	73,054	\$87,784	64,083	.....	6,971	2,000	278	73,054	105	28	133	1
.....	9,040	13,804	7,610	.....	1,130	300	200	9,040	29	4	30	2
.....	1,524	2,417	1,524	.....	.....	.....	125	1,524	6	2	8	3
.....	83,618	\$104,005	73,217	.....	8,101	2,300	201	83,618	137	34	171	
.....	15,700	\$28,990	.....	.....	15,300	400	260	15,700	34	6	40	1
.....	9,532	18,314	.....	.....	9,032	500	275	9,532	18	2	20	2
.....	4,708	9,416	.....	.....	4,708	.....	230	4,708	8	1	9	3
.....	4,120	7,010	.....	.....	4,070	50	130	4,120	14	3	17	4
.....	4,024	6,329	.....	.....	4,024	.....	209	4,024	8	1	9	5
.....	4,000	6,784	.....	.....	4,000	.....	300	4,000	7	2	9	6
.....	3,674	7,585	.....	.....	3,554	120	300	3,674	8	2	10	7
.....	3,520	6,306	.....	.....	3,420	100	250	3,520	10	1	11	8
.....	3,450	6,750	.....	.....	3,370	80	200	3,450	10	2	12	9
.....	3,014	6,614	.....	.....	2,844	370	202	3,014	9	4	13	10
.....	2,883	5,766	.....	.....	2,883	.....	250	2,883	7	2	9	11
.....	2,870	6,035	.....	.....	2,800	70	290	2,870	7	2	9	12
.....	2,800	4,900	.....	.....	2,800	.....	220	2,800	5	1	6	13
.....	1,700	3,179	.....	.....	1,700	.....	200	1,700	5	1	6	14
.....	1,406	2,362	.....	.....	1,206	200	200	1,406	4	1	5	15
.....	1,320	2,160	.....	.....	1,200	120	200	1,320	3	1	4	16
.....	1,200	2,100	.....	.....	1,200	.....	200	1,200	3	.....	3	17
.....	1,040	2,080	.....	.....	1,010	.....	200	1,040	3	1	4	18
.....	848	1,696	.....	.....	848	.....	150	848	4	1	5	19
.....	672	1,344	.....	.....	672	.....	200	672	2	.....	2	20
.....	504	1,008	.....	.....	504	.....	160	504	2	.....	2	21
.....	416	832	.....	.....	416	.....	140	416	2	.....	2	22
.....	400	700	.....	.....	400	.....	90	400	3	.....	3	23
.....	360	720	.....	.....	360	.....	120	360	2	1	3	24
.....	340	680	.....	.....	340	.....	150	340	2	1	3	25
.....	328	653	.....	.....	328	.....	80	328	3	1	4	26
.....	258	452	.....	.....	258	.....	80	258	3	1	4	27
.....	254	475	.....	.....	254	.....	60	254	2	1	3	28
.....	60	120	.....	.....	60	.....	40	60	1	.....	1	29
.....	75,401	\$141,342	.....	.....	73,391	2,010	188	75,401	189	39	228	
.....	159,019	\$245,347	73,217	.....	81,492	4,310	.....	150,019	326	73	399	





*Knox County—Second District—1905—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or Waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employ'cs.	Total.	
1,000	14,500	\$30,000	9,500	.....	4,000	1,000	125	14,500	30	7	37	1
.....	9,300	10,770	8,620	480	200	.....	152	9,300	30	7	37	3
1,000	23,800	\$30,770	18,120	480	4,200	1,000	138	23,800	60	14	74	
6,234	\$10,659				6,090	144	220	6,234	15	2	17	1
5,000	9,375				4,700	300	240	5,000	11	3	14	2
4,054	6,865				3,912	142	240	4,054	9	2	11	3
3,600	5,800				3,240	360	180	3,600	10	3	13	4
2,440	4,880				2,440	.....	220	2,440	7	1	8	5
2,146	3,756				2,146	.....	200	2,146	6	1	7	6
1,812	3,159				1,812	.....	200	1,812	5	1	6	7
1,428	2,142				1,428	.....	200	1,428	4	1	5	8
1,400	2,450				1,400	.....	200	1,400	5	1	6	9
1,346	2,422				1,346	.....	180	1,346	4	.....	4	10
1,280	1,920				1,280	.....	250	1,280	3	.....	3	11
1,258	2,516				1,258	.....	197	1,258	5	1	6	12
1,234	2,282				1,192	42	240	1,234	3	1	4	13
1,042	1,563				1,042	.....	125	1,042	4	1	5	14
980	1,225				980	.....	200	980	3	.....	3	15
880	1,980				880	.....	120	880	5	.....	5	16
840	1,210				840	.....	130	840	4	.....	4	17
828	1,656				828	.....	220	828	3	1	4	18
800	1,400				800	.....	160	800	3	1	4	19
800	1,320				800	.....	200	800	2	.....	2	20
720	1,080				720	.....	120	720	4	.....	4	21
640	960				640	.....	120	640	3	.....	3	22
600	1,200				600	.....	125	600	4	.....	4	23
560	980				560	.....	117	560	3	.....	3	24
480	720				480	.....	150	480	2	1	3	25
400	700				400	.....	120	400	2	.....	2	26
400	700				400	.....	120	400	2	.....	2	27
275	516				275	.....	100	275	2	.....	2	28
240	360				240	.....	80	240	2	.....	2	29
240	360				240	.....	100	240	2	.....	2	30
240	450				240	.....	120	240	2	.....	2	31
200	450				200	.....	90	200	2	.....	2	32
192	336				192	.....	60	192	2	.....	2	33
160	360				160	.....	120	160	1	.....	1	34
104	160				104	.....	70	104	1	.....	1	35
80	160				80	.....	80	80	1	.....	1	36
80	180				80	.....	90	80	2	.....	2	37
80	160				80	.....	70	80	2	.....	2	38
48	72				48	.....	40	48	1	.....	1	39
40	80				40	.....	60	40	2	.....	2	40
.....	45,181	\$78,590	.....	.....	44,193	988	147	45,181	157	22	179	
1,000	68,981	\$109,360	18,120	480	48,393	1,988	.....	68,981	217	36	253	

*Marshall County—Second District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings
SHIPPING MINES.							
1	Devlin Coal Co. No. 1.....	Toluca .....	86,521	193,191	11,680	.....	70,443
2	Wenona Coal Co. No. 1.....	Wenona .....		82,707		4,683	22,785
3	Marquette Third Vein Coal Co.....	Sparland .....	525	11,644			1,458
Totals .....			87,046	287,542	11,680	4,683	94,686
LOCAL MINES.							
1	Frank A. Barr.....	Sparland .....		3,000			
2	R. H. Ingram .....	do .....		1,600			
3	W. E. Frisbey .....	do .....		1,236			
4	William Bough.....	Henry .....		420			
5	William Lopeman .....	do .....		224			
6	Jasper Winesburger*	Chillicothe .....		200			
7	Daniels & Martell*	Henry .....		200			
8	L. Nighswonger.....	Sparland .....		120			
9	John Myers.....	do .....		112			
10	Bernard Lanning.....	do .....		80			
Totals .....				7,192			
Totals—13 mines.....			87,046	294,734	11,680	4,683	94,686

\*New mine.  
 Mines reported for 1904, 12.  
 New mines, 2.  
 Abandoned mines, 1.  
 Mines in 1905, 13.

*Marshall County—Second District—1905—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
18,139	379,974	\$450,104	323,469	32,242	6,124	18,139	282	379,974	604	167	771	1
.....	110,175	194,099	98,669	.....	11,506	5,000	239	110,175	180	71	251	2
.....	13,627	22,483	9,193	.....	3,489	945	296	13,627	29	10	39	3
18,139	503,776	\$666,686	426,331	32,242	21,119	24,084	272	503,776	813	248	1,061	
.....	3,000	\$4,500	.....	.....	3,000	.....	250	3,000	12	.....	12	1
.....	1,600	2,400	.....	.....	1,600	.....	200	1,600	4	.....	4	2
.....	1,236	1,854	.....	.....	1,236	.....	130	1,236	4	.....	4	3
.....	420	735	.....	.....	420	.....	150	420	2	.....	2	4
.....	224	392	.....	.....	224	.....	100	224	2	.....	2	5
.....	200	300	.....	.....	200	.....	80	200	2	.....	2	6
.....	200	350	.....	.....	200	.....	70	200	2	.....	2	7
.....	120	180	.....	.....	120	.....	80	120	1	.....	1	8
.....	112	168	.....	.....	112	.....	95	112	1	.....	1	9
.....	80	120	.....	.....	80	.....	80	80	1	.....	1	10
.....	7,192	\$10,999	.....	.....	7,192	.....	123	7,192	31	.....	31	
18,139	510,968	\$677,685	426,351	32,242	28,311	24,084	.....	510,968	844	248	1,092	

*Mercer County Second District—1905.*

Name of mine.	Percentage surface of mine.	OUTPUT OF MINE—				
		Miner.	Laborer.	Team.	Mill.	Per cent actual.
1. <i>Adams</i>	100	100	100	100	100	100
2. <i>Adams</i>	100	100	100	100	100	100
3. <i>Adams</i>	100	100	100	100	100	100
4. <i>Adams</i>	100	100	100	100	100	100
5. <i>Adams</i>	100	100	100	100	100	100
6. <i>Adams</i>	100	100	100	100	100	100
7. <i>Adams</i>	100	100	100	100	100	100
8. <i>Adams</i>	100	100	100	100	100	100
9. <i>Adams</i>	100	100	100	100	100	100
10. <i>Adams</i>	100	100	100	100	100	100
11. <i>Adams</i>	100	100	100	100	100	100
12. <i>Adams</i>	100	100	100	100	100	100
13. <i>Adams</i>	100	100	100	100	100	100
14. <i>Adams</i>	100	100	100	100	100	100
15. <i>Adams</i>	100	100	100	100	100	100
16. <i>Adams</i>	100	100	100	100	100	100
17. <i>Adams</i>	100	100	100	100	100	100
18. <i>Adams</i>	100	100	100	100	100	100
19. <i>Adams</i>	100	100	100	100	100	100
20. <i>Adams</i>	100	100	100	100	100	100
21. <i>Adams</i>	100	100	100	100	100	100
22. <i>Adams</i>	100	100	100	100	100	100
23. <i>Adams</i>	100	100	100	100	100	100
24. <i>Adams</i>	100	100	100	100	100	100
25. <i>Adams</i>	100	100	100	100	100	100
26. <i>Adams</i>	100	100	100	100	100	100
27. <i>Adams</i>	100	100	100	100	100	100
28. <i>Adams</i>	100	100	100	100	100	100
29. <i>Adams</i>	100	100	100	100	100	100
30. <i>Adams</i>	100	100	100	100	100	100
31. <i>Adams</i>	100	100	100	100	100	100
32. <i>Adams</i>	100	100	100	100	100	100
33. <i>Adams</i>	100	100	100	100	100	100
34. <i>Adams</i>	100	100	100	100	100	100
35. <i>Adams</i>	100	100	100	100	100	100
36. <i>Adams</i>	100	100	100	100	100	100
37. <i>Adams</i>	100	100	100	100	100	100
38. <i>Adams</i>	100	100	100	100	100	100
39. <i>Adams</i>	100	100	100	100	100	100
40. <i>Adams</i>	100	100	100	100	100	100
41. <i>Adams</i>	100	100	100	100	100	100
42. <i>Adams</i>	100	100	100	100	100	100
43. <i>Adams</i>	100	100	100	100	100	100
44. <i>Adams</i>	100	100	100	100	100	100
45. <i>Adams</i>	100	100	100	100	100	100
46. <i>Adams</i>	100	100	100	100	100	100
47. <i>Adams</i>	100	100	100	100	100	100
48. <i>Adams</i>	100	100	100	100	100	100
49. <i>Adams</i>	100	100	100	100	100	100
50. <i>Adams</i>	100	100	100	100	100	100
51. <i>Adams</i>	100	100	100	100	100	100
52. <i>Adams</i>	100	100	100	100	100	100
53. <i>Adams</i>	100	100	100	100	100	100
54. <i>Adams</i>	100	100	100	100	100	100
55. <i>Adams</i>	100	100	100	100	100	100
56. <i>Adams</i>	100	100	100	100	100	100
57. <i>Adams</i>	100	100	100	100	100	100
58. <i>Adams</i>	100	100	100	100	100	100
59. <i>Adams</i>	100	100	100	100	100	100
60. <i>Adams</i>	100	100	100	100	100	100
61. <i>Adams</i>	100	100	100	100	100	100
62. <i>Adams</i>	100	100	100	100	100	100
63. <i>Adams</i>	100	100	100	100	100	100
64. <i>Adams</i>	100	100	100	100	100	100
65. <i>Adams</i>	100	100	100	100	100	100
66. <i>Adams</i>	100	100	100	100	100	100
67. <i>Adams</i>	100	100	100	100	100	100
68. <i>Adams</i>	100	100	100	100	100	100
69. <i>Adams</i>	100	100	100	100	100	100
70. <i>Adams</i>	100	100	100	100	100	100
71. <i>Adams</i>	100	100	100	100	100	100
72. <i>Adams</i>	100	100	100	100	100	100
73. <i>Adams</i>	100	100	100	100	100	100
74. <i>Adams</i>	100	100	100	100	100	100
75. <i>Adams</i>	100	100	100	100	100	100
76. <i>Adams</i>	100	100	100	100	100	100
77. <i>Adams</i>	100	100	100	100	100	100
78. <i>Adams</i>	100	100	100	100	100	100
79. <i>Adams</i>	100	100	100	100	100	100
80. <i>Adams</i>	100	100	100	100	100	100
81. <i>Adams</i>	100	100	100	100	100	100
82. <i>Adams</i>	100	100	100	100	100	100
83. <i>Adams</i>	100	100	100	100	100	100
84. <i>Adams</i>	100	100	100	100	100	100
85. <i>Adams</i>	100	100	100	100	100	100
86. <i>Adams</i>	100	100	100	100	100	100
87. <i>Adams</i>	100	100	100	100	100	100
88. <i>Adams</i>	100	100	100	100	100	100
89. <i>Adams</i>	100	100	100	100	100	100
90. <i>Adams</i>	100	100	100	100	100	100
91. <i>Adams</i>	100	100	100	100	100	100
92. <i>Adams</i>	100	100	100	100	100	100
93. <i>Adams</i>	100	100	100	100	100	100
94. <i>Adams</i>	100	100	100	100	100	100
95. <i>Adams</i>	100	100	100	100	100	100
96. <i>Adams</i>	100	100	100	100	100	100
97. <i>Adams</i>	100	100	100	100	100	100
98. <i>Adams</i>	100	100	100	100	100	100
99. <i>Adams</i>	100	100	100	100	100	100
100. <i>Adams</i>	100	100	100	100	100	100

*Mercer County—Second District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
3,624	174,780	\$219,790	168,932	.....	2,224	3,624	234	174,780	166	93	259	1
34,448	134,618	178,238	125,998	30	2,590	6,000	218	134,618	114	113	227	2
1,313	69,168	95,677	67,391	464	.....	1,313	192	69,168	88	58	146	3
6,174	69,078	90,668	60,550	674	1,680	6,174	262	69,078	62	55	117	4
10,654	57,674	77,579	54,396	544	.....	2,734	238	57,674	46	38	84	5
.....	11,800	17,270	18,600	.....	3,000	200	197	11,800	12	3	15	6
.....	5,600	8,000	11,200	.....	4,200	200	175	5,600	11	2	13	7
.....	3,840	5,420	400	.....	3,400	40	240	3,840	8	4	12	8
.....	3,434	4,454	12,500	.....	634	300	160	3,434	6	3	9	9
56,213	529,992	\$697,096	489,967	1,712	17,728	20,585	213	529,992	513	369	882	
.....	3,000	\$4,500	.....	.....	3,000	.....	175	3,000	5	1	6	1
.....	2,888	4,044	.....	.....	2,888	.....	200	2,888	5	1	6	2
.....	1,840	3,680	.....	.....	1,840	.....	250	1,840	5	1	6	3
.....	1,800	2,700	.....	.....	1,800	.....	175	1,800	4	1	5	4
.....	1,400	2,100	.....	.....	1,400	.....	200	1,400	3	1	4	5
.....	1,400	1,900	.....	.....	1,300	100	100	1,400	5	1	6	6
.....	1,100	1,550	.....	.....	1,000	100	200	1,100	3	1	4	7
.....	800	1,600	.....	.....	800	.....	150	800	2	1	3	8
.....	14,228	\$22,074	.....	.....	14,028	200	181	14,228	32	8	40	
56,213	544,220	\$719,170	489,967	1,712	31,756	20,785	.....	544,220	545	377	922	

† Coal hauled to railroad by team.

*Putnam County—Second District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINE.							
1	St. Paul Coal Co. No. 1*.....	Granville .....	10,369	23,452	.....	.....	9,143

\* New mine.  
New mines, 1.  
Mines in 1905, 1.

*Rock Island County—Second District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Silvis Mining Co., No. 2.....	Carbon Cliff..		12,134			5,586
2	Volunteer Coal Co.....	Coal Valley...	1,256	2,768			1,512
Totals .....			1,256	14,902			7,098
LOCAL MINES.							
1	J. J. Pryce & Son, No. 2.....	Coal Valley...		19,834			216
2	Sackville Bros.....	do .....		10,000			5,000
3	John Hynd & Sons.....	Moline .....		6,240			1,200
4	Stoddard & Summerson*.....	Coal Valley...		4,976			1,653
5	Alfred Carlson .....	do .....		1,800			400
6	Zeigler Bros.* .....	do .....		1,228			324
7	Stone Bros.....	Carbon Cliff..		800			
8	Guckert Bros.....	Hampton .....		642			
9	M. B. Hunter & Co *	Moline .....		462			48
10	Chas. A. Loding*.....	do .....		318			82
11	D. L. Edwards .....	Coal Valley...		200			
12	Fred. Von Ach*.....	Hampton .....		100			
Totals .....				46,600			8,928
Totals—14 mines .....			1,256	61,502			16,026

\* New mine.  
Mines reported for 1904, 14.  
New mines, 5.  
Abandoned mines, 5.  
Mines in 1905, 14.

*Putnam County—Second District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	42,964	\$46,389	37,768	.....	972	4,224	290	42,964	160	56	216	1

*Rock Island County—Second District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	17,720	\$24,027	16,819	.....	212	689	159	17,720	21	8	29	1
.....	5,536	6,793	5,236	.....	.....	300	150	5,536	10	5	15	2
.....	23,256	\$30,820	22,055	.....	212	989	155	23,256	31	13	44	
.....	20,050	\$39,776	.....	.....	19,834	216	160	20,050	25	17	42	1
.....	15,000	22,500	.....	.....	14,885	115	210	15,000	15	4	20	2
.....	7,440	12,840	.....	.....	7,080	360	220	7,440	8	4	12	3
.....	6,634	10,450	.....	.....	6,452	182	182	6,634	6	5	11	4
.....	2,200	3,350	.....	.....	2,150	50	230	2,200	3	1	4	5
.....	1,552	2,458	.....	.....	1,352	200	240	1,552	2	1	3	6
.....	800	1,600	.....	.....	800	.....	175	800	2	1	3	7
.....	642	1,284	.....	.....	642	.....	107	642	3	.....	3	8
.....	510	948	.....	.....	510	.....	100	510	3	.....	3	9
.....	400	677	.....	.....	400	.....	100	400	3	1	4	10
.....	200	400	.....	.....	200	.....	90	200	2	.....	2	11
.....	100	200	.....	.....	100	.....	50	100	1	.....	1	12
.....	55,528	\$97,483	.....	.....	54,405	1,123	155	55,528	73	35	108	
.....	78,784	\$127,303	22,055	.....	54,617	2,112	.....	79,784	104	48	152	



*Stark County—Second District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Wyoming Coal Co. No. 1.....	Wyoming .....	2,000	4,000	.....	.....	1,800
2	Watson & Higbee.....	do.....	1,600	2,520	.....	.....	840
Totals .....			3,600	6,520	.....	.....	2,640
LOCAL MINES.							
1	Shady Lane Coal Co.....	Wyoming .....		4,224	.....	.....	280
2	W. B. Ballentine .....	do.....		3,720	.....	.....	400
3	Nicholas Peterson*.....	Bradford .....		2,400	.....	.....	600
4	Dalrymple Bros .....	Neponset .....		2,522	.....	.....	.....
5	James Scott.....	Wyoming .....		2,464	.....	.....	200
6	Jesse Savill.....	do.....		2,106	.....	.....	80
7	W. W. Jones .....	Bradford .....		1,440	.....	.....	.....
8	Ben Smith .....	Wyoming .....		1,360	.....	.....	.....
9	John Catton .....	West Jersey .....		1,265	.....	.....	.....
10	Oscar Bass*.....	Wyoming .....		640	.....	.....	.....
11	Cahill & Code .....	Lombardville .....		600	.....	.....	.....
12	John S. Taylor*.....	Neponset .....		548	.....	.....	.....
13	James K. Fuller.....	Wyoming .....		280	.....	.....	.....
14	Chas. Charlson*.....	do.....		240	.....	.....	.....
15	John Thurston .....	do.....		202	.....	.....	.....
16	Bever Bros.....	do.....		100	.....	.....	.....
Totals .....				24,111	.....	.....	1,560
Totals—18 mines.....			3,600	30,631	.....	.....	4,200

\* New mines.  
Mines reported for 1904—16.  
New mines—4.  
Abandoned mines—2.  
Mines in 1905—18.

*Stark County—Second District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
.....	7,800	\$9,020	5,000	.....	2,200	600	140	7,800	20	6	26	1
.....	4,960	7,460	1,373	.....	3,547	40	225	4,960	10	4	14	2
.....	12,760	\$16,480	6,373	.....	5,747	640	183	12,760	30	10	40	
.....	4,504	\$8,588	.....	.....	4,304	200	208	4,504	9	.....	11	1
.....	4,120	6,710	.....	.....	4,000	120	265	4,120	8	.....	10	2
.....	3,000	5,550	.....	.....	3,000	.....	200	3,000	7	1	8	3
.....	2,522	5,044	.....	.....	2,522	.....	200	2,522	6	1	7	4
.....	2,664	4,362	.....	.....	2,560	104	250	2,664	5	1	6	5
.....	2,186	3,705	.....	.....	2,186	.....	270	2,186	4	.....	4	6
.....	1,440	2,880	.....	.....	1,440	.....	180	1,440	4	1	5	7
.....	1,360	2,380	.....	.....	1,360	.....	200	1,360	4	1	5	8
.....	1,265	2,846	.....	.....	1,265	.....	237	1,265	3	.....	3	9
.....	640	1,120	.....	.....	640	.....	140	640	2	.....	2	10
.....	600	1,500	.....	.....	600	.....	120	600	3	1	4	11
.....	548	1,096	.....	.....	548	.....	180	548	2	1	3	12
.....	280	420	.....	.....	280	.....	60	280	3	.....	3	13
.....	240	420	.....	.....	240	.....	80	240	2	1	3	14
.....	202	354	.....	.....	202	.....	80	202	2	1	3	15
.....	100	200	.....	.....	100	.....	40	100	2	1	3	16
.....	25,671	\$47,175	.....	.....	25,247	424	169	25,671	66	14	80	
.....	38,431	\$63,655	6,373	.....	30,994	1,064	.....	38,431	96	24	120	

*Warren County—Second District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Cook & Rohr.....	Gerlaw.....		4,500			60
2	Frank Gilmore.....	do.....		2,480			960
3	Thos. A. Welch.....	Monmouth.....		1,200			
4	Bryner Bros.*.....	Roseville.....		1,080			
5	John Sincok.....	Gerlaw.....		1,024			
6	J. B. Russell*.....	Roseville.....		600			120
7	John Selkirk.....	Monmouth.....		708			
8	S. W. Palmer & Co.*.....	do.....		560			
9	Thos. Caldwell.....	Avon.....		542			
10	Fall & Slater*.....	do.....		480			
11	C. G. Miller & Co.....	Youngstown.....		440			
12	Thos. Delaney.....	Avon.....		400			
13	Willis Clayton.....	do.....		400			
14	Bird Lieurence.....	Youngstown.....		400			
15	Clark Bros.*.....	Monmouth.....		400			
16	A. T. Hartford*.....	Roseville.....		320			
17	T. P. Yoeman*.....	St. Augustine.....		300			
18	G. W. Franklin*.....	Prairie City.....		266			
19	Thomas Lee.....	Youngstown.....		200			
20	William Ruhl*.....	Avon.....		48			
Totals .....				16,346			1,140

\*New mines.  
 Mines reported for 1904—15.  
 New mines—9.  
 Abandoned mines—4.  
 Mines in 1905—20.

*Warren County—Second District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	4,560	\$7,905	.....	.....	4,500	60	210	4,560	7	1	8	1
.....	3,440	4,820	.....	.....	3,340	100	230	3,440	5	1	6	2
.....	1,200	2,400	.....	.....	1,200	.....	150	1,200	5	.....	5	3
.....	1,080	3,240	.....	.....	1,080	.....	194	1,080	5	1	6	4
.....	1,024	1,792	.....	.....	1,024	.....	160	1,024	5	1	4	5
.....	720	1,950	.....	.....	680	40	150	720	5	1	6	6
.....	706	1,588	.....	.....	706	.....	220	706	5	1	4	7
.....	560	1,280	.....	.....	560	.....	160	560	5	1	4	8
.....	542	1,355	.....	.....	542	.....	156	542	5	.....	3	9
.....	480	1,200	.....	.....	480	.....	130	480	4	.....	4	10
.....	440	1,100	.....	.....	440	.....	150	440	5	.....	2	11
.....	400	1,000	.....	.....	400	.....	120	400	4	.....	4	12
.....	400	1,000	.....	.....	400	.....	150	400	4	.....	4	13
.....	400	1,000	.....	.....	400	.....	120	400	5	.....	3	14
.....	400	800	.....	.....	400	.....	120	400	5	1	3	15
.....	320	800	.....	.....	320	.....	120	320	5	.....	3	16
.....	300	600	.....	.....	300	.....	150	300	5	.....	2	17
.....	266	665	.....	.....	266	.....	200	266	1	.....	1	18
.....	200	500	.....	.....	200	.....	120	200	1	.....	1	19
.....	48	120	.....	.....	48	.....	40	48	1	.....	1	20
.....	17,486	\$35,096	.....	.....	17,286	200	152	17,486	66	8	74	

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Average value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau .....	7	1,722,063	99,281	1,331,745	13,480	336	276,485	736	\$2,531,797
Henry .....	3	83,618	24,580	41,616	.....	.....	17,422	.....	104,005
Knox .....	2	23,800	3,200	13,200	500	500	5,400	1,000	30,770
Marshall .....	7	503,776	87,046	287,542	11,680	4,683	94,686	18,139	666,686
Mercer .....	9	529,992	33,621	319,848	.....	8,871	111,439	56,213	697,096
Putnam .....	1	42,964	10,369	23,452	.....	.....	9,143	.....	46,389
Rock Island .....	2	23,256	1,256	14,902	.....	.....	7,098	.....	30,820
Stark .....	2	12,760	3,600	6,520	.....	.....	2,640	.....	16,480
Totals and averages	29	2,942,229	262,953	2,038,825	25,660	14,390	524,313	76,088	\$4,124,043

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Average value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bureau .....	14	29,812	.....	28,456	.....	.....	1,356	.....	\$ 55,434
Henry .....	29	75,401	.....	68,171	.....	.....	7,230	.....	141,342
Knox .....	40	45,181	.....	43,417	.....	.....	1,764	.....	78,590
Marshall .....	10	7,192	.....	7,192	.....	.....	.....	.....	10,999
Mercer .....	8	14,228	.....	13,640	.....	.....	588	.....	22,072
Rock Island .....	12	55,528	.....	46,600	.....	.....	8,928	.....	96,483
Stark .....	16	25,671	.....	24,111	.....	.....	1,560	.....	47,175
Warren .....	20	17,486	.....	16,346	.....	.....	1,140	.....	35,096
Totals and averages	149	270,499	.....	247,933	.....	.....	22,566	.....	\$487,191
Totals, district—all mines .....	178	3,212,728	262,953	2,286,758	25,660	14,390	546,879	76,088	\$4,611,234

Whole number of mines reported in 1904, 171.  
 Number of new mines opened during the year, 43.  
 Number of mines abandoned during the year, 36.  
 Whole number of mines reported for 1905, 178.

*Second District—1905—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.		By hand.	By machine.	Hand mining.	Machine mining.
3,326	1,118	4,444	1,591,798	23,370	31,562	75,333	220	1,722,063	.....	\$0.79	.....
137	34	171	73,217	.....	8,101	2,300	201	83,618	.....	0.7073	.....
60	14	74	18,120	480	4,200	1,000	138	23,800	.....	0.625	.....
813	248	1,061	426,331	32,242	21,119	24,084	272	503,776	.....	0.79	.....
513	369	882	489,967	1,712	17,728	20,585	213	529,992	.....	0.6344	.....
160	56	216	37,768	.....	972	4,224	290	42,964	.....	0.79	.....
31	13	44	22,055	.....	212	989	155	23,256	.....	0.6757	.....
30	10	40	6,373	.....	5,747	640	183	12,760	.....	0.8694	.....
5,070	1,862	6,932	2,665,629	57,804	89,641	129,155	211	2,942,229	.....	\$0.7577	.....

*Second District—1905—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.	Average number of days in operation.	By hand.	By machine.	Hand mining.	Machine mining.
75	14	89	.....	.....	29,412	400	187	29,812	.....	\$0.947	.....
189	39	228	.....	.....	73,391	2,010	195	75,401	.....	1.071	.....
157	22	179	.....	.....	44,193	988	147	45,181	.....	1.03	.....
31	.....	31	.....	.....	7,192	.....	123	7,192	.....	1.00	.....
32	8	40	.....	.....	14,028	200	181	14,228	.....	0.9261	.....
73	35	108	.....	.....	54,405	1,123	155	55,528	.....	0.6414	.....
66	14	80	.....	.....	25,247	424	169	25,671	.....	1.0144	.....
66	8	74	.....	.....	17,286	200	152	17,486	.....	1.1616	.....
689	140	829	.....	.....	265,154	5,345	163	270,499	.....	\$0.9533	.....
5,759	2,002	7,761	2,665,629	57,804	354,795	134,500	....	3,212,728	.....	.....	.....

## THIRD INSPECTION DISTRICT---1905.

### TWENTY-SECOND ANNUAL REPORT.

Counties—Cass, Fulton, Hancock, McDonough, Menard, Peoria,  
Schuyler, Tazewell.

JAMES TAYLOR, *Inspector*, Peoria.

HON. DAVID ROSS,  
*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—I have the honor to submit the twenty-second annual report of coal mines located in the third inspection district. The coal producing counties of which are Cass, Fulton, Hancock, McDonough, Menard, Peoria, Schuyler and Tazewell.

The tabular part of the report gives the number of tons of coal mined; the number of kegs of powder consumed; the number of boys over 16 years of age working in the mines, also the number of miners and other employes; the number of shipping and local mines; the aggregate value of the total product at the mines; the thickness of the coal seams, with the geological numbers and the depth of the seams below the surface; the number of casualties, fatal and non-fatal; the number of mines, old, new, and abandoned; the total tons of the different grades of coal produced, and the number of days of active operation of each mine during the year.

The whole number of mines reported for the year is 262, this is twenty-four mines more than reported for last year. In the following summary may be found the salient features given in detail in the county tables:

Number of counties producing coal .....	8
Total number of mines.....	262
Number of shipping mines.....	55
Number of local mines.....	207
Number of new mines.....	35
Number of mines abandoned.....	11
Total number of employes.....	5,397
Number of miners.....	3,952
Number of other employes, under ground, including boys.....	887
Number of employes above ground.....	558
Number of kegs of powder used.....	142,231
Total tons of coal produced.....	3,107,379
Tons of mine run.....	624,400
Tons of lump.....	1,577,792
Tons of egg.....	228,639
Tons of nut.....	150,467
Tons of pea or screenings.....	376,569
Tons of slack or waste.....	149,512
Tons of coal shipped from mines.....	2,547,463
Tons supplied to locomotives.....	50,848
Tons sold to local trade.....	431,775
Tons consumed or wasted at the mines.....	77,288
Aggregate value of the total product.....	\$3,570,324
Average value per ton, all grades.....	\$1.149

Average number of days, shipping mines .....	198
Average price paid for hand mining, shipping mines.....	\$0 5841
Number of fatal accidents .....	9
Number of non-fatal accidents .....	23
Number of tons of coal to each fatal accident.....	345,264
Number of tons of coal to each non-fatal accident.....	135,103
Number of employes to each fatal accident.....	600
Number of employes to each non-fatal accident.....	235
Ratio of fatal accidents per 1,000 persons employed.....	1.7

The following table shows the product of each county in the district for the years 1904 and 1905, with the gain and loss in tonnage:

COUNTY.	TOTAL PRODUCT OF ALL GRADES OF COAL—TONS.		Increase.	Decrease.
	1904.	1905.		
Cass .....	2,780	2,190	.....	190
Fulton.....	1,284,279	1,439,489	155,210	.....
Hancock .....	12,270	11,560	.....	710
McDonough.....	60,574	43,944	.....	16,630
Menard.....	543,763	448,433	.....	95,330
Peoria.....	939,737	904,892	.....	34,845
Schuyler .....	18,400	21,470	3,070	.....
Tazewell.....	196,611	235,001	38,390	.....
Totals .....	3,058,414	3,107,379	196,670	147,705

Net increase..... 48,965 tons.

The counties of Fulton, Schuyler and Tazewell, show a combined increase over last year of 196,670 tons, while the other counties show a decrease aggregating 147,705 tons, leaving a net gain over last year of 48,965 tons. The increase in the output this year over that of 1903 is approximately 400,000 tons.

The number of shipping mines in the district is 55, the same as last year, while the number of local mines has increased from 183 to 207; there has been an increase of 589 in the number of employes, of whom 480 were miners proper.

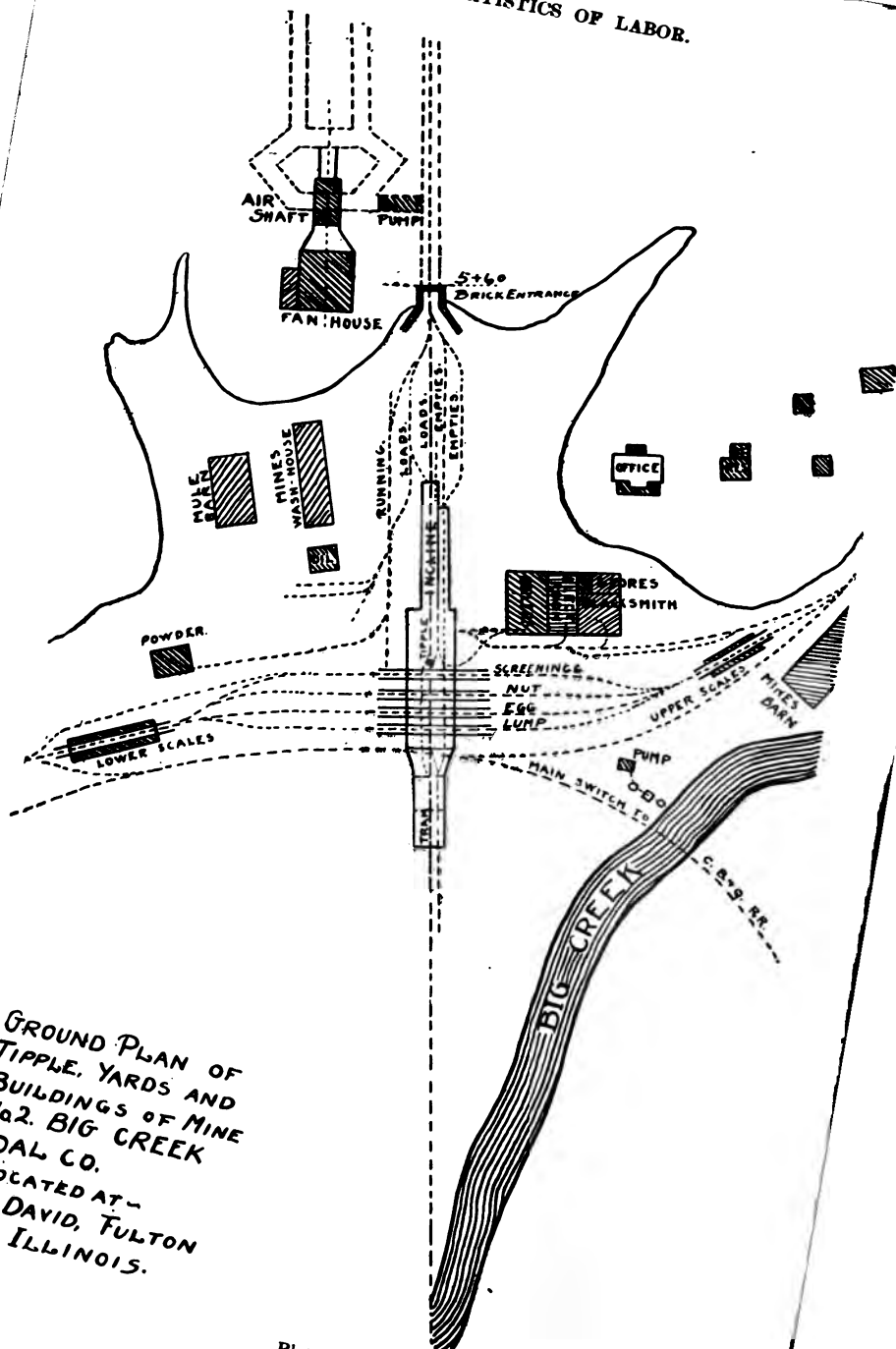
#### ESCAPEMENT SHAFTS.

For several years past Sholl Brothers and the Collier Co-Operative mines, which are located at Bartonville, Peoria county, have used a connecting passageway for an escapement. This passageway was condemned by me on account of its unsafe condition, it having been neglected by each company and allowed to become impassable. Both companies were notified to sink an escapement shaft to their mines, and considerable difficulty was experienced in prevailing upon them to start the work of sinking, finally I succeeded in getting them started.

Sholl Brothers got their escapement shaft down to the coal and connections completed with their main entries Nov. 20, 1904. Dec. 9, 1904, a fire was started on the main entry in this mine, by a trapper, who had dropped his lighted lamp on a quantity of hay, which had been allowed to accumulate at the door, which he was attending; the fire burned the door, also the timbers, and all combustible material for a distance of several hundred feet along the main entry. The mine timbers were burning fiercely and the hoisting shaft being the down-cast, the air current was conveying the smoke and fire towards the working face of the mine, where 121 men and boys were working. The engineer reversed the fan, thus making the hoisting shaft the up-cast, and thereby reversing the air-current, which prevented the fire and smoke from reaching the men, until they had had sufficient time to climb the ladder up the escapement shaft (the stairways had not been placed) to the surface.



## STATISTICS OF LABOR.



GROUND PLAN OF  
 TIPPLE, YARDS AND  
 BUILDINGS OF MINE  
 No. 2, BIG CREEK  
 COAL CO.  
 LOCATED AT—  
 ST. DAVID, FULTON  
 Co. ILLINOIS.

There were a number of old miners who were unable to climb the ladder, and were hoisted from the mine in the sinking bucket, which had not been removed from the escapement shaft.

At the time of the fire, if the new escapement shaft had not been sunk and connections been made, every one of the men in the mine would have perished. The fire was extinguished, after causing about \$2,000 damage to the main entry.

The escapement shafts at the mines of Sholl Brothers and the Collier Co-operative Company are now completed and in lawful condition.

#### NEW MINE.

The following constitutes in a general way a description of the equipment of mine No. 2 of the Big Creek Coal Company, located at St. David, Fulton county, including all machinery used in connection with the mining operations at this mine.

*The Tipple*—The method of handling the coal is by means of a link-belt, machinery chain-haul, which operates on an incline of 25 per cent; the haul-up chain conveying the coal to an automatic Phillips cross-over dump; the empty cars are returned to the lower yards by means of a kick-back, an auxiliary and a down-haul chain; the chain-haul is operated by a 10x14-inch Houston, Stanwood & Gamble engine. The shaker screens are of the Duncan type, and are driven by a 12x16-inch Atlas engine; the capacity of the chain-haul is from 2,200 to 2,500 tons per day of eight hours. The tipple is of mill construction covered with corrugated iron. An extension of 100 feet has recently been made to the tipple as a tramway at the end of which the slate is dumped from a height of about forty-five feet, the slate is handled in the same manner as the coal.

The power house and the boiler room equipment consists of three sixty-six-inch by eighteen feet Kewanee boilers, a total of 345 horsepower; also one fifty-four-inch Stillwell heater, and one 10x6x12-inch Epping-Carpenter feed pump, also one 7x12 foot water tank. The water for the boilers is obtained from Big Creek, being filtered before being admitted into a No. 4 Cameron pump, and forced into the tank, which is located in the boiler house; the two pumps located in the boiler house and in the pumping station in connection with the tank, furnish fire protection for the entire plant.

The generator room consists of one 100 Kilowatt-Goodman generator, which is driven by a 16x16-inch McEwen engine, having a 168 horsepower. This equipment furnishes the power for a twelve-ton Goodman motor and also the lighting for the entire plant. This room is so constructed that the machinery can be duplicated at any time; in the same building is located the blacksmith and repair shops, an electrical store room, also a general supply room.

*The Fan House*—This building is located on the top of a hill some 500 feet from the power house. The fan is of the Duncan type, twenty-two feet in diameter, and is driven by a 14x20-inch Atlas engine; the steam is conveyed to this engine from the power house, underground, and the exhaust is returned by an overhead main to the wash house, furnishing water to the miners for washing.

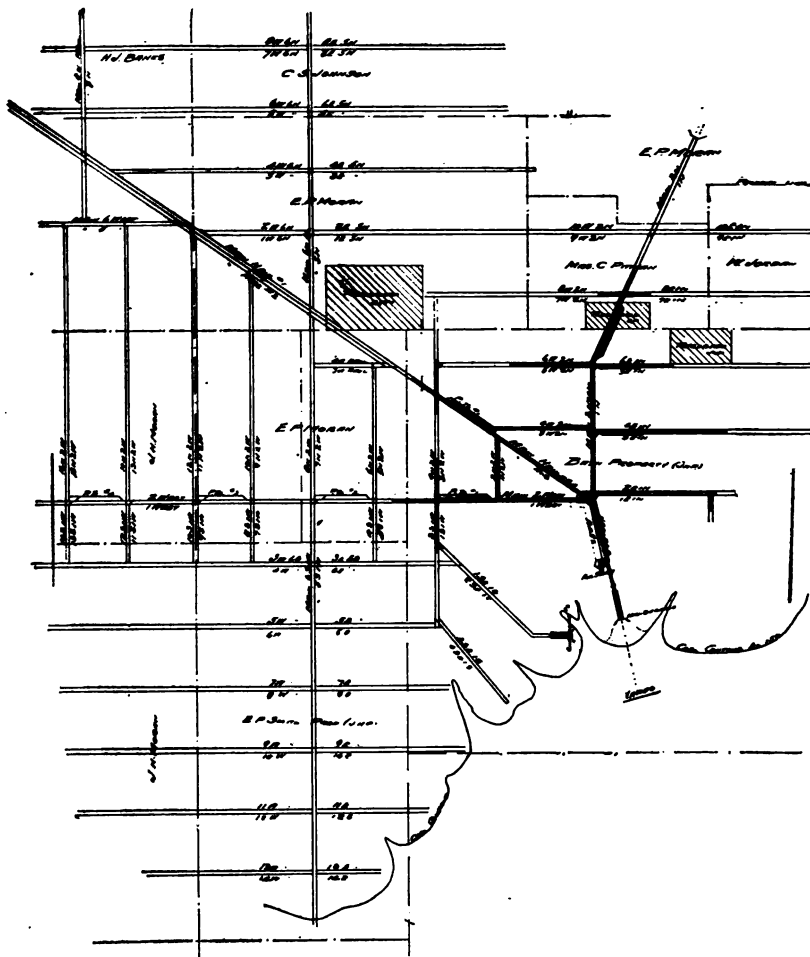
The other buildings, which constitute a portion of this plant, are the powder house, oil house, pumping station, wash house, mule barn, miners barn, office building, and residences. Plate 1 gives a general plan of the yards and buildings.

Following is a general description of the mine and the equipment for handling the coal.

The arrangements for handling the coal from the mine to the tipple consists, at the present time, of one twelve-ton Goodman motor and about 300 pit cars, of a average capacity of from 3,300 to 3,500 pounds; the coal is gathered from the rooms in cars which are hauled by mules to the partings, where the cars are readily accessible to be attached to the motor; the conditions for thus handling the coal are very favorable, the entrance being located on the low side of the dip, which has a rise of about ten feet to the mile, in a north-westerly direction from the entrance, giving all the advant.

age possible in favor of the hauling of the loads. The motor can handle very easily, on a single trip, from sixty to eighty cars. From the entrance of the mine to the foot of the incline the loaded tracks are on about a  $1\frac{1}{4}$  per cent grade, and can be easily handled on this grade; on the empty tracks the grade is about  $1\frac{1}{4}$  per cent:

The water in the mine is handled by means of a No. 7 Knowles pump, which is located immediately between the air shaft and the main entry, where the water is pumped into a 12-inch sewer that extends some 500 feet inside of the mine. Plate 2 gives a general idea of the layout of the inside of the mine.



PROSPECTIVE MINING PLAN  
ENTRANCE - ADJACENT TO  
BIG CREEK CO. CO.  
BY ENGINEER - ADJACENT TO  
ADJACENT TO  
ADJACENT TO  
ADJACENT TO

Plate 2.

All the different departments of the mine, as well as the inside of the mine, also the different mines owned by this company, are connected directly with the main office by an independent telephone system which brings the entire system in close communication. The company has under consideration and will probably construct within the next year another outlet to the mine, with increased facilities and trackage for handling the coal outside of the mine.

## FATAL ACCIDENTS.

Aug. 22, 1904, R. M. Foster, miner, aged 32 years, single, was killed in Newsam Bros.' mine, Kingston, Peoria county, while drilling out a shot in his room, which had failed to explode the night before. It is assumed the drill struck a piece of sulphur, generating a spark and igniting the powder, the explosion following. The partner of the deceased, Ed Taylor, was in the room at the time of the accident, and was severely burned and cut on the back and face by flying coal and rock.

Nov. 14, 1904, John Wilson, shot firer, aged 55 years, single, was asphyxiated by powder smoke while firing shots for the miners working in the Phoenix Coal Co.'s mine, Wesley City, Tazewell county.

Feb. 1, 1905, John Kochin, miner, aged 28 years, single, was killed in the Tallula Coal Co.'s mine, Tallula, Menard county, by a fall of rock while working in his room. Deceased had been notified by both the mine manager and pit committee of the dangerous condition of the roof in his room, and had been advised to keep out until the timbermen had secured it. Kochin was an Austrian, and did not understand the English language nor comprehend the warnings given to him.

Feb. 13, 1905, L. Moore, miner, aged 42 years, married, was severely injured in the East Cuba Coal Co.'s mine, Cuba, Fulton county, when passing the crosscut in his room. A shot that had been fired in the second room from his blew the coal through into the crosscut, the flying coal striking him on the head. He died four days after the accident, leaving a widow and three children.

March 7, 1905, Arthur Finney, shot firer, aged 30 years, single, was killed in the Monmouth Coal Co.'s mine, Brereton, Fulton county, by a shot blowing through the entry pillar while he was lighting another shot on the parallel entry. The flying coal broke his ribs, a part of a broken rib penetrating his heart.

May 21, 1905, Joseph Dynjewic, miner, aged 21 years, single, was killed in the Maplewood Coal Co.'s mine No. 2, Farmington, Fulton county. One of the drivers, being desirous of laying off from work in the afternoon, the deceased was employed to drive a mule the rest of the day. He made one trip on the west side, bringing the loaded cars to the bottom of the shaft. The mule, in turning out of the track, turned to the right instead of the left. Dynjewic got in front of the cars and attempted to stop them, but was pushed under the descending cage, which killed him.

May 30, 1905, William Johnson, miner, aged 27 years, single, employed at the mine of the Greenview Coal Co., Greenview, Menard county, was killed while riding on an electric motor, coming in contact with the wire. He had finished his day's work and was riding to the bottom of the shaft.

June 3, 1905, William Panko, miner, married, aged 60 years, and his son, William, single, aged 21 years, were working in the mine of the South Mountain Coal Co., Petersburg, Menard county. Both were burned severely by an explosion of powder while filling a cartridge, a spark from a lamp igniting the powder caused the explosion. The father died at 6:00 p. m. the same day; the son died the next day. The father left a widow and three children.

The tabulation of the fatal and non-fatal accidents, and of the output of the mines, with other detailed information, by counties, follow.

Respectfully submitted,

JAMES TAYLOR,

*State Inspector of Mines, Third District, Peoria.*

*Fatal Casualties—Third District—July 1, 1905.*

Date.	NAME.	Age.	Occupation.	Residence (Town.)	Married.	Widows.	Children.	Single.	Persons dependent.	Cause of accident.
1904.										
Aug. 22	R. M. Foster.....	32	Miner.....	Kingston...				1		Explos'n, premature.
Nov. 14	John Wilson.....	58	Shot firer...	Wesley City				1		Asphyxiated, powd'r smoke.....
1905.										
Feb. 1	John Kochin.....	28	Miner.....	Tallula.....				1		Falling rock.....
13	L. Moore.....	42	Miner.....	Cuba.....	1	1	3		4	Shot blowing, through crosscut...
Mar. 7	Arthur Finney.....	30	Shot firer...	Brereton.....				1		Shot blowing, through crosscut...
May 21	Joseph Dynjewic..	21	Miner.....	Farmington...				1		Descending cage....
30	William Johnson..	27	Miner.....	Greenvlew....				1		Electric shock.....
June 3	Wm. Panko.....	60	Miner.....	Petersburg...	1	1	3		4	Explosion, powder..
3	Wm. Panko, Jr....	21	Miner.....	Petersburg...				1		Explosion, powder..
	Total 9.....				2	2	6	7	8	

*Recapitulation of Fatal Casualties—Third District—July 1, 1905.*

RESIDENCE.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Brereton.....	1	Miners.....	7	Asphyxiated.....	1	East Cuba Coal Co.....	1
Cuba.....	1	Shot firers....	2	Descending cage..	1	Greenvlew Coal Co.....	1
Farmington..	1			Electric shock....	1	Maplewood Coal Co....	1
Greenvlew...	1			Explos'n, powder..	2	Monmouth Coal Co.....	1
Kingston.....	1			Explos'n, prem....	1	Newsam Bros.....	1
Petersburg...	2			Falling rock.....	1	Phoenix Coal Co.....	1
Tallula.....	1			Shot explosion....	2	So. Mountain Coal Co..	2
Wesley City..	1					Tallula Coal Co.....	1
Total.....	9		9		9		9

*Non-Fatal Casualties—Third District—July 1, 1905,*

Date.	NAME.	Age.	Residence. (Town)	Married. Single.	Children.	No. persons dependent.	Character of injury and cause of accident.	Time lost— days.
1901								
July 12	John Carlson.....	17	Athens.....	1	.....	.....	Hip dislocated, falling rock	62
Aug. 12	John Phillip.....	22	Bryant.....	1	.....	.....	Hip fractured by pit car	40
22	Geo. A. Gray.....	19	Cuba.....	1	.....	.....	Body burned, premature explosion	90
22	Ed. Taylor.....	25	Kingston.....	1	.....	.....	Face, arm and hand burned with powder	30
Sept. 19	John Austin.....	40	Bryant.....	1	2	3	Back injured, falling slate	36
Nov. 11	W. B. Lamb.....	23	Norris.....	1	.....	.....	Leg injured, pony running	36
Dec. 13	A. Leon.....	35	Athens.....	1	.....	.....	Body injured, pit cars	40
20	Bert Mustard.....	30	Farmington.....	1	1	2	Leg injured, falling slate	30
20	Hershall Johnson.....	23	do.....	1	.....	.....	Shoulders injured, falling slate	30
1905								
Jan. 10	John Rogers.....	26	Athens.....	1	.....	2	Leg broken, falling slate	92
14	W. Tindell.....	35	Wolcott.....	1	.....	.....	Leg and arm injured, pit cars	42
14	Dick Cody.....	49	East Peoria.....	1	4	5	Face and hands burned by shots	31
28	John Roberts.....	36	Athens.....	1	.....	2	Body injured, falling rock	30
Feb. 10	H. Jones.....	29	Westley.....	1	.....	.....	Ribs broken, pit cars	30
16	Neil Baxter.....	26	St. David.....	1	.....	3	Shoulder dislocated, fall- ing from car	60
27	Thomas Roe.....	42	Orch'rd Mines.....	1	.....	3	Body burned, gas explo- sion	40
27	Jas. Hand.....	26	do.....	1	.....	1	Body burned, gas explo- sion	35
27	O. Charles.....	32	do.....	1	.....	2	Body burned, gas explo- sion	50
27	A. Anderson.....	26	Kingston.....	1	.....	.....	Foot injured, pit car	30
Mar. 7	Ralph Gibson.....	17	Norris.....	1	.....	.....	Finger cut off, pit cars	41
22	Charles Lorson.....	40	Lewistown.....	1	3	4	Leg broken, falling rock	90
24	Wm. Burdett.....	42	Pottstown.....	1	2	3	Body burned, powder ex- plosion	35
24	Geo. Glaze.....	50	do.....	1	.....	4	Body burned, powder ex- plosion	30
	Totals.....			11	12	34		

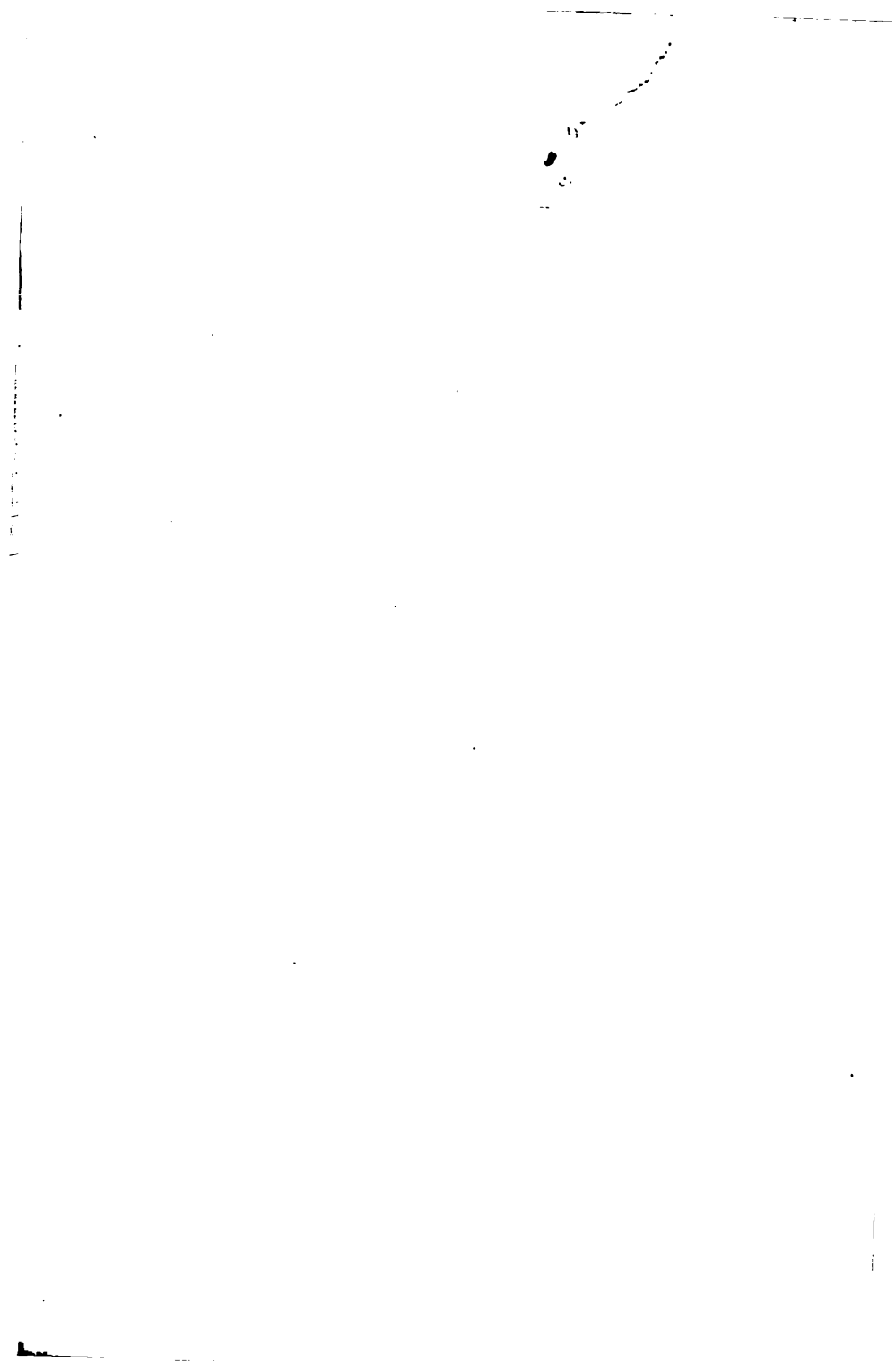
Total number of men injured ..... 23  
 Total time lost, days ..... 994  
 Average time lost, days ..... 43.22

*Recapitulation of Non-Fatal Casualties—Third District — 1905.*

RESIDENCE.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Athens.....	4	Drivers.....	6	Falling from car..	1	Applegate & Lewis. ....	1
Bryant.....	2	Miners.....	15	Falling rock.....	3	Big Creek Coal Co.....	3
Cuba.....	1	Mine manager	1	Falling slate.....	4	Manhattan Coal Co.....	1
E. Peoria.....	1	Spragger.....	1	Gas explosion.....	3	Newsam Bros.....	5
Farmington.....	2			Pit cars.....	6	Norris Coal Co.....	3
Kingston.....	2			Pony.....	1	Phoenix Coal Co.....	1
Lewistown.....	1			Powder explosion	3	Third Vein Coal Co.....	3
Norris.....	2			Premature blast..	1	Wabash Coal Co.....	4
Orchard Mines	3			Blast explosion...	1	Wantling & Burdet .....	1
Pottstown.....	2					Yocum & Son.....	1
St. David.....	1						
Wesley.....	1						
Wolcott.....	1						
Totals.....	23		23		23		23

*Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Third District—July 1, 1905.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Back injured.....	1	1	.....	3	30	30.00	4.35
Bodies burned.....	6	5	1	13	280	46.66	26.10
Bodies injured.....	2	1	1	2	70	35.00	8.70
Faces and hands burned.....	2	1	1	5	31	15.50	8.70
Fingers cut off.....	1	.....	1	.....	41	41.00	4.35
Foot injured.....	1	.....	1	.....	30	30.00	4.35
Hip dislocated.....	1	.....	1	.....	62	62.00	4.35
Hip fractured.....	1	.....	1	.....	40	40.00	4.35
Leg broken.....	1	1	.....	4	90	90.00	4.34
Legs injured.....	4	2	2	4	200	50.00	17.39
Ribs broken.....	1	.....	1	.....	30	30.00	4.34
Shoulder dislocated.....	1	1	.....	3	60	60.00	4.34
Shoulder injured.....	1	.....	1	.....	30	30.00	4.34
Totals, averages and percentages.....	23	12	11	34	994	43.22	100.00





*Cass County—Third District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Wm. Shore .....	Chandlerville. ....		1,460 .....			
2	Charles Nelson .....	do .....		1,130 .....			
	Totals, 2 mines .....			2,590 .....			

Mines in 1904, 2.

Mines in 1905, 2.

*Fulton County—Third District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Maplewood Coal Co. No. 1 .....	Peoria .....	2,655	104,881	59,363	846	68,203
2	Monmouth Coal Co. No. 1 .....	Brereton .....	214	74,492	60,046	18,464	54,355
3	Whitebreast Fuel Co. of Ill. E. ....	Dunfermline..	29,283	42,814	43,448	9,954	3,701
4	Big Creek Coal Co. No. 2* .....	St. David .....	15,000	64,890	28,545	3,324	23,223
5	Norris Coal Mining Co. ....	Norris .....		50,000	16,000		35,000
6	Applegate & Lewis .....	Cuba .....	32,000	35,000			
7	Newsam Bros. ....	Peoria .....		42,595		13,311	
8	Whitebreast Fuel Co. of Ill. ....	Dunfermline..	1,667	29,946	9,802	5,029	9,320
9	East Cuba Coal Co. ....	Cuba .....		41,200		16,400	3,640
10	Maplewood Coal Co. No. 2* .....	Peoria .....	4,302	18,788	11,018	1,304	14,606
11	Big Creek Coal Co. No. 1 .....	St. David .....	7,500	22,618			10,692
12	Foley Coal Co. No. 1 .....	Canton .....	560	25,585		6,540	
13	Canton Union Coal Co. ....	do. ....	31,400				
14	Spoon River Coal Co. ....	Galesburg .....	5,064	17,750			2,100
15	Farmington Coal Co. Nickle Plate ..	Farmington ..	1,348	7,629	154	483	3,362
16	Monarch C. & Min. Co., Monarch ..	Monmouth .....	424	7,766		1,541	2,253
17	Essex & Fritz Coal Co. No. 1 .....	Galesburg .....	11,200				
18	J. Riley .....	Breeds .....		8,340			620
19	Putnam Coal Co. ....	Cuba .....		8,120			520
20	Essex & Fritz Coal Co. No. 2 .....	Galesburg .....		8,000			400
Totals .....			142,618	610,395	226,376	77,196	231,995

\*New Mine.

*Cass County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or Waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	1,460	\$2,555	.....	.....	1,460	.....	150	1,460	4	.....	4	1
.....	1,130	1,978	.....	.....	1,130	.....	110	1,130	3	.....	3	2
.....	2,590	\$4,533	.....	.....	2,590	.....	130	2,590	7	.....	7	

*Fulton County—Third District—Continued.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	235,948	\$256,762	230,940	819	2,320	1,869	267	235,948	177	95	272	1
6,549	214,123	227,790	203,512	.....	1,212	9,399	228	214,123	196	82	278	2
29,300	158,500	174,411	152,819	.....	368	5,913	115	158,500	166	89	248	3
.....	132,982	154,296	132,462	520	.....	.....	210	132,982	150	41	191	4
5,000	106,000	129,800	90,000	13,200	1,000	1,800	230	106,000	110	47	157	5
22,000	89,000	100,540	70,000	15,300	150	3,550	240	89,000	125	48	173	6
10,648	66,554	76,138	60,710	.....	3,684	2,160	240	66,554	71	42	113	7
7,946	63,710	68,749	62,189	.....	.....	1,521	116	63,710	71	25	96	8
.....	61,240	75,900	60,000	.....	.....	1,240	200	61,240	70	22	92	9
.....	49,999	53,216	45,696	.....	2,104	2,199	130	49,999	50	27	77	10
.....	40,808	44,503	40,808	.....	.....	.....	200	40,808	50	22	72	11
7,540	40,225	45,433	39,225	.....	1,000	.....	162	40,225	40	13	53	12
.....	31,400	36,110	20,000	.....	10,600	800	251	31,400	30	8	38	13
150	25,064	35,521	21,368	2,596	800	800	220	25,064	20	10	30	14
1,473	14,449	16,125	10,949	.....	2,086	1,434	175	14,449	21	13	34	15
418	12,402	16,336	9,460	.....	1,454	1,488	209	12,402	20	12	32	16
.....	11,200	11,200	11,200	.....	.....	.....	200	11,200	18	12	30	17
.....	8,960	11,152	8,400	.....	.....	560	210	8,960	20	8	28	18
.....	8,640	10,410	8,000	.....	.....	640	200	8,640	20	7	27	19
.....	8,400	12,200	8,400	.....	.....	.....	210	8,400	20	6	26	20
91,024	1,379,604	\$1,554,592	1,286,138	32,435	26,258	34,773	201	1,379,604	1,445	622	2,067	

*Fulton County—Third District—1905—Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Engg.	Nut.	Pea or screenings
LOCAL MINES.							
1	Canton Coal Co	Canton	6,000	11,000			
2	Standard Coal Co	do	1,100	10,200			
3	Wm. Roddis	Ipava		2,000			
4	Joe McLaughlin	Canton		2,910			
5	Westerfield & Co	do		2,900			
6	W. E. Anderson	do		2,900			
7	A. M. Everly	do		350			
8	A. J. Gunnett	Fairview		2,825			
9	McBroom Bros.	Canton		2,000			
10	Stokes & Lee	do		1,960			
11	Joseph Wilson	Astoria		1,620			
12	Temple Geiselman	do		1,200			
13	E. P. Moran	St. David		1,110			
14	R. E. Gould & Co	Fairview		820			
15	L. R. Snider	St. David		800			
16	Martin & Son	Canton		720			
17	Murphy & Son	do		700			
18	Jacob Cleary	Fairview		620			
19	D. S. Mayall	Ipava		600			
20	Robert Raby	Cuba		400			
21	Wm. Jordan	St. David		260			
22	L. W. Davis	Fairview		230			
23	T. H. Travis	do		220			
24	Abraham Bath	St. David		200			
25	Little Black Diamond	Farmington		150			
26	Martain & Peterson	Canton		120			
27	H. B. Doyle	Norris		120			
28	Geo. Prowl	Fairview		110			
29	Surprise Coal Co	Astoria		100			
30	W. H. James	Fairview		80			
Totals			7,100	52,785			
Totals, 50 mines			149,718	663,180	226,376	77,196	231,995

Mines in 1904, 54.  
 New mines, 2.  
 Abandoned mines, 6.  
 Mines in 1905, 50.

*Fulton County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.		
Slack or waste	Total.		Tons loaded on cars for shipment	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.
.....	17,000	\$24,000	.....	.....	17,000	.....	210	17,000	30	8	38
.....	11,300	16,675	.....	.....	11,300	.....	200	11,300	20	8	28
.....	3,000	4,500	.....	.....	3,000	.....	210	3,000	8	8	10
.....	2,910	4,365	.....	.....	2,910	.....	180	2,910	6	6	8
.....	900	3,625	.....	.....	2,900	.....	150	2,900	10	12	12
.....	850	4,356	.....	.....	2,900	.....	160	2,900	4	9	6
.....	825	4,275	.....	.....	2,850	.....	200	2,850	4	6	7
.....	2,000	3,531	.....	.....	2,825	.....	250	2,825	8	9	8
.....	1,960	3,000	.....	.....	2,000	.....	220	2,000	8	10	9
.....	1,620	2,940	.....	.....	1,960	.....	150	1,960	10	12	10
.....	1,200	2,240	.....	.....	1,620	.....	120	1,620	3	4	11
.....	1,110	2,400	.....	.....	1,200	.....	110	1,110	2	3	12
.....	820	1,388	.....	.....	820	.....	80	820	4	5	14
.....	800	1,025	.....	.....	800	.....	720	800	5	1	6
.....	720	1,080	.....	.....	720	.....	85	720	10	1	11
.....	700	1,050	.....	.....	700	.....	90	700	6	.....	17
.....	620	775	.....	.....	620	.....	70	620	4	.....	18
.....	600	900	.....	.....	600	.....	460	600	10	1	19
.....	460	575	.....	.....	460	.....	200	460	4	.....	20
.....	260	325	.....	.....	260	.....	90	260	3	.....	21
.....	230	288	.....	.....	230	.....	80	230	3	.....	22
.....	220	275	.....	.....	220	.....	200	220	3	.....	23
.....	200	250	.....	.....	200	.....	150	200	1	.....	24
.....	150	263	.....	.....	150	.....	120	150	3	1	25
.....	120	180	.....	.....	120	.....	120	120	3	1	26
.....	120	150	.....	.....	120	.....	110	120	2	.....	27
.....	110	138	.....	.....	110	.....	100	110	2	.....	28
.....	100	200	.....	.....	100	.....	80	100	8	1	29
.....	80	100	.....	.....	80	.....	30	80	1	.....	30
.....	59,885	\$86,863	.....	.....	59,885	.....	135	59,885	190	39	229
91,024	1,439,489	\$1,641,455	1,286,138	32,435	86,143	34,773	.....	1,439,489	1,635	661	2,296

*Hancock County—Third District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT of MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Merideth Bros.....	Augusta.....		8,500			
	Totals.....			8,500			
LOCAL MINES.							
1	C. H. Ellis.....	Augusta.....		1,500			
2	L. Bennett.....	do.....		650			
3	S. Jones.....	do.....		500			
4	Geo. Willey.....	do.....		410			
	Totals.....			3,060			
	Totals—5 mines.....			11,560			

Mines in 1904—5.  
 Abandoned mines—1.  
 Mines in 1905—5.

*Hancock County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employés.	Total.	
.....	8,500	\$14,875	8,000	.....	500	.....	200	8,500	12	2	14	1
.....	8,500	\$14,875	8,000	.....	500	.....	200	8,500	12	2	14	
.....	1,500	\$3,000	.....	.....	1,500	.....	230	.....	8	1	9	1
.....	650	1,300	.....	.....	650	.....	180	.....	4	1	5	2
.....	500	1,000	.....	.....	500	.....	175	.....	4	2	6	3
.....	410	820	.....	.....	410	.....	150	.....	4	2	6	4
.....	3,060	\$6,120	.....	.....	3,060	.....	184	3,060	20	6	26	
.....	11,560	\$20,995	8,000	.....	3,560	.....	.....	11,560	32	8	40	

*McDonough County—Third District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Rippetoe & Rundle .....	Colchester .....		7,583			
2	Burney & Co. * .....	do .....		4,582			
Totals .....				12,175			
LOCAL MINES.							
1	Atkinson Bros .....	Colchester .....		1,726			
2	John Wilson .....	do .....		1,669			
3	Ralph Oldham .....	do .....		1,527			
4	Roger Williams .....	do .....		1,400			
5	Charles Atkinson .....	do .....		1,131			
6	Michal Hume .....	do .....		1,000			
7	John Ruder .....	do .....		996			
8	Thos. Wilson .....	Blandinsville .....		980			
9	Cooper & Stone .....	Colchester .....		956			
10	Wm. Whalen .....	do .....		860			
11	Wm. Jones .....	do .....		830			
12	John C. Kirkbride .....	Vermont .....		826			
13	Wm. H. Robinson .....	Colchester .....		782			
14	Wm. Kipling .....	do .....		700			
15	Marion McClure .....	do .....		651			
16	Waddle Bros .....	Tennessee .....		640			
17	Hulson & Kipling .....	Colchester .....		626			
18	Frank Burdick .....	Industry .....		612			
19	Joseph Burgard * .....	Vermont .....		600			
20	John Pearson .....	Colchester .....		600			
21	Geo. W. Foster .....	do .....		600			
22	John Betson .....	do .....		600			
23	Larne Bowman .....	Industry .....		585			
24	Wm. Edington .....	Macomb .....		580			
25	Wayland Bros .....	Colchester .....		580			
26	Lewis Lewis .....	do .....		566			
27	Bert Creecy* .....	do .....		532			
28	Reynolds & Lowery .....	do .....		484			
29	Joseph Bunt .....	do .....		440			
30	Jackson Gilligan .....	Industry .....		400			
31	Clay Nudd .....	La Harpe .....		400			
32	Sam Oldham .....	Colchester .....		376			
33	Taylor & Bixson .....	Blandinsville .....		360			
34	Eli Hilliard .....	Colchester .....		320			
35	Ora Barrett* .....	do .....		320			
36	Andrew Swans n .....	do .....		296			
37	F. M. Haines .....	do .....		288			
38	John Berry .....	do .....		280			
39	Wm. Baker .....	Macomb .....		280			
40	Willis Stoneking .....	Birmingham .....		256			
41	Joseph Waller .....	Colchester .....		240			
42	Hanson & Hunter .....	Macomb .....		240			
43	J. E. Smith .....	Colchester .....		240			
44	Heniy Riggens .....	Macomb .....		220			
45	Geo. McIntire .....	Industry .....		210			
46	Andrew Neunecker .....	Bushnell .....		200			
47	Alla Voters .....	Colchester .....		200			
48	W. B. Davidson .....	do .....		200			
49	Lee McClure .....	do .....		200			
50	Walter Wittchell .....	Vermont .....		180			
51	Nelson & Harper .....	Colchester .....		172			
52	King & Peck* .....	do .....		160			
53	Hoar & Foster* .....	do .....		160			
54	Richard Lally .....	do .....		156			

## McDonough County—Third District—Continued.

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
.....	7,593	\$11,390	7,593	.....	.....	.....	134	7,593	50	3	53	1
.....	4,582	6,873	4,582	.....	.....	.....	288	4,582	17	1	18	2
.....	12,175	\$18,263	12,175	.....	.....	.....	211	12,175	67	4	71	.....
.....	1,726	\$3,452	.....	.....	1,726	.....	216	1,726	6	.....	6	1
.....	1,669	3,338	.....	.....	1,669	.....	190	1,669	8	3	11	2
.....	1,527	3,054	.....	.....	1,527	.....	175	1,527	7	1	8	3
.....	1,400	2,800	.....	.....	1,400	.....	300	1,400	3	.....	3	4
.....	1,131	2,262	.....	.....	1,131	.....	160	1,131	5	1	6	5
.....	1,000	2,000	.....	.....	1,000	.....	250	1,000	4	.....	4	6
.....	996	1,992	.....	.....	996	.....	50	996	3	.....	3	7
.....	960	2,400	.....	.....	960	.....	225	930	3	1	4	8
.....	956	1,912	.....	.....	956	.....	225	956	3	.....	3	9
.....	860	1,720	.....	.....	860	.....	120	860	6	.....	6	10
.....	830	1,660	.....	.....	830	.....	150	830	5	.....	5	11
.....	826	1,652	.....	.....	826	.....	275	826	3	1	4	12
.....	782	1,564	.....	.....	782	.....	140	782	4	1	5	13
.....	700	1,400	.....	.....	700	.....	250	700	2	.....	2	14
.....	651	1,302	.....	.....	651	.....	131	651	6	.....	6	15
.....	640	1,280	.....	.....	640	.....	200	640	3	.....	3	16
.....	626	1,252	.....	.....	626	.....	140	626	4	.....	4	17
.....	612	1,377	.....	.....	612	.....	240	612	5	1	4	18
.....	600	1,200	.....	.....	600	.....	250	600	6	.....	6	19
.....	600	1,200	.....	.....	600	.....	150	600	5	.....	5	20
.....	600	1,200	.....	.....	600	.....	112	600	5	.....	5	21
.....	600	1,200	.....	.....	600	.....	200	600	2	.....	2	22
.....	585	1,170	.....	.....	585	.....	235	585	4	1	5	23
.....	580	1,305	.....	.....	580	.....	260	580	5	1	4	24
.....	580	1,160	.....	.....	580	.....	230	580	5	.....	5	25
.....	560	1,120	.....	.....	560	.....	146	560	3	1	4	26
.....	532	1,064	.....	.....	532	.....	115	532	3	.....	3	27
.....	484	968	.....	.....	484	.....	200	484	2	.....	2	28
.....	440	880	.....	.....	440	.....	150	440	3	.....	3	29
.....	400	800	.....	.....	400	.....	140	400	3	.....	3	30
.....	400	1,000	.....	.....	400	.....	200	400	3	1	4	31
.....	376	752	.....	.....	376	.....	140	376	2	.....	2	32
.....	360	810	.....	.....	360	.....	160	360	3	1	4	33
.....	320	640	.....	.....	320	.....	234	320	2	.....	2	34
.....	320	640	.....	.....	320	.....	150	320	2	.....	2	35
.....	296	592	.....	.....	296	.....	180	296	3	.....	3	36
.....	288	576	.....	.....	288	.....	140	288	3	.....	3	37
.....	280	560	.....	.....	280	.....	100	280	4	1	5	38
.....	240	560	.....	.....	280	.....	200	260	2	.....	2	39
.....	276	512	.....	.....	256	.....	175	256	4	.....	4	40
.....	240	480	.....	.....	240	.....	85	240	5	.....	5	41
.....	240	480	.....	.....	240	.....	75	240	4	1	5	42
.....	240	480	.....	.....	240	.....	120	240	1	.....	1	43
.....	220	440	.....	.....	220	.....	170	220	2	.....	2	44
.....	210	420	.....	.....	210	.....	175	210	2	.....	2	45
.....	200	400	.....	.....	200	.....	150	200	2	.....	2	46
.....	200	400	.....	.....	200	.....	150	200	2	.....	2	47
.....	200	400	.....	.....	200	.....	50	200	5	.....	5	48
.....	200	400	.....	.....	200	.....	160	200	2	.....	2	49
.....	180	360	.....	.....	180	.....	260	180	1	.....	1	50
.....	172	344	.....	.....	172	.....	150	172	2	.....	2	51
.....	160	320	.....	.....	160	.....	50	160	2	.....	2	52
.....	160	320	.....	.....	160	.....	149	160	3	.....	3	53
.....	156	312	.....	.....	156	.....	200	156	2	.....	2	54



*McDonough County—Third District—Concluded.*

■Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or Screenings.
LOCAL MINES--Concluded.							
55	Walter Upham .....	Colchester ....		143			
56	George Polonus .....	do .....		140			
57	Atkinson & Dunbar .....	do .....		139			
58	D. E. Perry* .....	do .....		112			
59	John Whalen .....	do .....		100			
60	Anton Lokosik .....	do .....		98			
61	Elmer Swanson .....	do .....		92			
62	Chas. Porter .....	do .....		84			
63	John C. Witchell* .....	Vermont .....		80			
64	Geo. Moon .....	Colchester ....		80			
65	William Webster* .....	do .....		76			
66	Aaron Crone .....	do .....		60			
67	Joseph Stone* .....	do .....		48			
68	William Barber .....	do .....		40			
69	John Zimmerman .....	do .....		40			
70	John Burton .....	do .....		30			
Totals .....				31,739			
Totals—72 mines .....				43,944			

\* New mine.  
 Mines reported for 1904, 64.  
 New mines, 9.  
 Abandoned mines, 1.  
 Mines in 1905, 72.

*McDonough County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	143	\$286	.....	.....	143	.....	286	.....	1	.....	1	55
.....	140	280	.....	.....	140	.....	80	.....	1	.....	1	56
.....	139	278	.....	.....	139	.....	75	.....	1	.....	1	57
.....	112	224	.....	.....	112	.....	110	.....	1	.....	1	58
.....	100	200	.....	.....	100	.....	50	.....	4	.....	4	59
.....	98	196	.....	.....	98	.....	80	.....	1	.....	1	60
.....	92	184	.....	.....	92	.....	125	.....	1	.....	1	61
.....	84	168	.....	.....	84	.....	100	.....	3	.....	3	62
.....	80	160	.....	.....	80	.....	70	.....	1	.....	1	63
.....	80	160	.....	.....	80	.....	75	.....	2	.....	2	64
.....	76	152	.....	.....	76	.....	50	.....	2	.....	2	65
.....	60	120	.....	.....	60	.....	40	.....	2	.....	2	66
.....	48	96	.....	.....	48	.....	40	.....	1	.....	1	67
.....	40	80	.....	.....	40	.....	25	.....	2	1	3	68
.....	40	80	.....	.....	40	.....	35	.....	1	.....	1	69
.....	30	60	.....	.....	30	.....	35	.....	1	.....	1	70
.....	31,769	\$84,666	.....	.....	31,769	.....	150	31,769	205	17	222	.....
.....	43,944	\$82,929	12,175	.....	31,769	.....	.....	43,944	272	21	293	.....

*Menard County—Third District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Greenview Coal & M. Co.....	Greenview.....		82,171		3,930	8,793
2	Athens Mining Co.....	Athens.....	28,005	38,995		4,888	17,589
3	Wabash Coal Co. No. 2.....	do.....	32,132	25,718		4,130	10,490
4	Middletown Coal Co. No. 1.....	Middletown.....		29,438	1,656	468	9,542
5	Tallula Coal Co.....	Tallula.....	29,069	5,963		177	3,512
6	South Mountain Coal Co.....	Petersburg.....	7,128	20,108	607		7,980
7	Petersburg Coal Mining Co.....	do.....	8,148	13,020		2,348	7,956
8	Manchester Coal Co.....	do.....		8,000			
9	People Coal & Mining Co*.....	do.....	2,340	2,391			
Totals .....			106,822	225,802	2,263	15,941	65,862
LOCAL MINES.							
1	Arthur Wainwright.....	Sweetwater.....		3,520			
2	C. F. Johnson.....	Middletown.....		3,000			
3	Loyd Coal Co.....	Petersburg.....		2,120			
4	Peter Becker.....	Tallula.....		900			
5	Riverside Coal Co.....	Petersburg.....		900			
6	Duncan Coal Co.....	Tice.....		200			
7	John W. Malligan*.....	Petersburg.....		2,000			
Totals .....				12,640			
Totals—16 mines.....			106,822	238,442	2,263	15,941	65,862

\* New mines.  
 Mines in 1904, 15.  
 New mines, 2.  
 Abandoned mines, 1.  
 Mines in 1905, 16.

*Menard County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.		
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total. Number.
8,593	103,487	\$107,324	89,756	.....	5,139	8,592	233	103,487	100	44	144
3,205	92,682	96,242	86,564	.....	2,913	3,205	168	92,682	96	39	135
.....	72,470	75,985	67,450	.....	2,000	3,020	146	72,470	125	53	178
3,340	44,444	47,026	38,467	.....	2,637	3,340	225	44,444	51	31	82
1,460	40,181	38,612	34,237	.....	4,484	1,460	220	40,181	45	15	60
1,682	37,503	35,458	28,541	3,103	4,177	1,682	189	37,503	43	23	66
.....	31,472	32,014	28,492	.....	1,061	1,919	198	31,472	39	16	55
.....	8,000	8,400	5,000	.....	2,725	275	69	8,000	28	13	41
823	5,554	5,857	4,947	.....	307	300	169	5,554	8	7	15
19,103	435,793	\$446,918	383,454	3,103	25,443	23,793	193	435,793	535	241	776
.....	3,520	\$6,160	.....	.....	3,520	.....	180	3,520	6	1	7
.....	3,000	5,250	.....	.....	3,000	.....	200	3,000	10	2	12
.....	2,120	3,710	.....	.....	2,120	.....	150	2,120	3	2	5
.....	900	1,575	.....	.....	900	.....	250	900	2	1	3
.....	900	1,575	.....	.....	900	.....	200	900	3	2	5
.....	200	350	.....	.....	200	.....	38	200	4	2	6
.....	2,000	3,500	.....	.....	2,000	.....	175	2,000	5	2	7
.....	12,640	\$22,120	.....	.....	12,640	.....	170	12,640	33	12	45
19,103	448,433	\$469,038	383,454	3,103	38,083	23,793	.....	448,433	568	253	821

*Peoria County—Third District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Clark Coal & Coke Co., A.....	Peoria .....		75,100		15,100	34,920
2	Wolschlag Coöperative Coal Co. ....	do .....	84,900				
3	Newsam Bros .....	do .....		53,113		16,598	
4	Sholl Bros., No. 3 .....	do .....	44,187	8,000		8,000	10,000
5	Collier Coöperative Coal Co .....	Bartonville ..	56,200				
6	Newsam Bros .....	Peoria .....		37,337		11,668	
7	Howarth & Taylor .....	Edwards .....		40,527			
8	Vickery Bros .....	Peoria .....	1,000	40,000			
9	Reents Bros .....	Kramm .....	1,200	24,800			
10	Central Coal & Coke Co .....	Elmwood .....	1,581	26,616			4,445
11	Clark Coal & Coke Co., B.....	Peoria .....		18,800		3,760	8,773
12	Isaac Wantling & Son .....	do .....		23,800			5,200
13	W. E. Foley .....	Mapleton .....	6,872	11,240			3,775
14	German Coal Co .....	do .....	14,312				
15	Newsam Bros .....	do .....		8,874		699	
16	Jas. Walker .....	do .....		10,000			
17	Peter Grant & Son, Excelsior .....	Peoria .....	827	5,232			1,980
18	Newsam Bros .....	do .....		4,818		1,505	1,204
19	Cusack & Edwards .....	Edwards .....		4,760			
Totals .....			211,079	363,017		57,330	70,297
LOCAL MINES.							
1	Winters Coöperative Coal Co., No.1	Bartonville ..		20,000			
2	Treasure Coal Co.* .....	do .....		19,833			
3	F. P. Schmidh & Sons .....	do .....		7,040			
4	Winters Coöperative C. Co., No.2*	do .....		7,000			
5	Ball Coal Co .....	do .....		5,968			
6	George Keller & Sons .....	do .....		5,354			
7	Reeve & Galloway .....	Kingston M's ..		4,957			
8	Patrick Martin* .....	Peoria .....		4,400			
9	Sanders & Son .....	Glasford .....		4,000			
10	Mohn Coal Co .....	Peoria .....		3,600			
11	Hanover Mining Co.* .....	do .....		3,517			
12	A. W. Higbee .....	Princeville .....		3,500			
13	Walter Robinson .....	Mapleton .....		2,500			
14	White Coal Co .....	Peoria .....		2,303			
15	J. Staton* .....	Mapleton .....		2,000			
16	R. Taylor .....	Princeville .....		2,000			
17	Wantling & Burdett .....	Pottstown .....		1,980			
18	Bell Coal Co .....	Peoria .....		1,480			
19	Crew Bros .....	Chillicothe .....		1,400			
20	Hand & Ash .....	Laura .....		1,320			
21	Joseph Marie .....	Peoria .....		1,304			
22	Hess Coal Co .....	do .....		1,200			
23	Fisher & Block .....	do .....		1,200			
24	Louis & Berry .....	do .....		1,000			
25	C. W. Wright .....	Chillicothe .....		1,000			
26	F. Taylor* .....	Elmwood .....		980			
27	L. Hearst .....	Bartonville .....		960			
28	Will Berry .....	Monica .....		950			
29	W. Poole .....	Edwards .....		800			
30	Tulley & Heaton .....	Brimfield .....		732			
31	Schott & Witheral* .....	Edwards .....		600			
32	A. Johnson .....	Hanna City .....		600			
33	J. Swinenger .....	Peoria .....		600			
34	Fair Oak Coal Co .....	do .....		542			
35	O. A. Hammet* .....	Chillicothe .....		500			
36	J. Dempster .....	Peoria .....		500			
37	R. Culbertson .....	Brimfield .....		480			

## Peoria County—Third District—Continued.

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.		
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Number.
	125,120	\$124,932	122,600		2,520		173	125,120	90	35	125
	84,900	84,900	83,969		931		240	84,900	50	14	84
13,278	82,989	82,989	80,802		711	1,476	215	82,989	88	32	120
	70,187	70,187	68,772		133	1,282	194	70,187	80	24	104
9,334	56,200	56,200	55,000		200	1,200	200	56,200	42	12	54
13,539	58,339	58,339	56,427		292	1,620	227	58,339	58	29	87
	54,066	54,066	49,954		2,251	1,861	224	54,066	62	22	84
	41,000	41,000	20,500		20,000	500	210	41,000	40	16	56
	26,000	33,440	23,000		3,000		200	26,000	36	10	46
	32,642	37,530	30,987		770	885	200	32,642	50	24	74
	31,333	31,271	19,133	10,400		1,800	137	31,333	50	23	73
	29,000	32,500	28,000		100	900	234	29,000	35	13	48
	21,887	23,682	21,508		79	300	103	21,887	32	15	47
	14,312	15,743	9,687	4,000		225	200	14,312	14	5	19
404	9,977	15,288	7,938		200	1,839	210	9,977	35	17	52
	10,000	13,000	10,000				180	10,000	16	4	20
	8,039	8,503	6,629	910		500	140	8,039	10	5	15
	7,527	8,250	7,029			498	104	7,527	21	14	35
	4,760	6,426	4,760				197	4,760	5	3	8
36,555	768,278	\$836,158	706,695	15,310	30,281	15,992	189	768,278	814	322	1,136
	20,000	\$30,000			20,000		275	20,000	18	4	22
	19,833	29,749			19,833		232	19,833	20	7	27
	7,040	10,560			7,040		190	7,040	22	5	27
	7,000	10,500			7,000		100	7,000	10	2	12
	5,968	8,949			5,968		198	5,968	6	2	8
	5,354	8,031			5,354		302	5,354	3	2	5
	4,957	7,436			4,957		150	4,957	3	2	10
	4,400	6,600			4,400		250	4,400	6	2	8
	4,000	5,000			4,000		275	4,000	5	3	8
	3,600	4,500			3,600		110	3,600	7	2	9
	3,517	5,276			3,517		260	3,517	7	3	10
	3,500	7,000			3,500		250	3,500	7	2	9
	2,500	3,750			2,500		200	2,500	4	1	5
	2,305	3,457			2,305		270	2,305	3	1	4
	2,000	3,000			2,000		225	2,000	4	1	4
	2,000	4,000			2,000		150	2,000	4	1	5
	1,980	2,970			1,980		200	1,980	4	1	5
	1,480	2,220			1,480		136	1,480	4	1	5
	1,400	2,800			1,400		200	1,400	3	1	4
	1,320	2,640			1,320		300	1,320	5	1	6
	1,304	1,956			1,304		100	1,304	3	1	4
	1,200	1,800			1,200		150	1,200	8	3	11
	1,200	1,800			1,200		200	1,200	2	1	3
	1,000	1,500			1,000		125	1,000	4	1	5
	1,000	2,000			1,000		100	1,000	5	1	6
	980	1,960			980		150	980	3	1	4
	960	1,440			960		150	960	2	1	3
	950	1,900			950		220	950	3	1	4
	800	1,600			800		200	800	2	1	3
	732	1,464			732		225	732	3	1	4
	600	1,200			600		100	600	3	2	5
	600	900			600		150	600	2	1	3
	600	900			600		100	600	2	1	3
	542	813			542		165	542	6	2	8
	500	1,000			500		125	500	2	1	2
	500	750			500		125	500	2	1	3
	480	960			480		150	480	2	1	3

*Peoria County—Third District—1905—Concluded.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES— <i>Concluded.</i>							
38	R. Clarkson .....	Oak Hill .....		400			
39	H. A. Bemont* .....	do .....		400			
40	Powell & Hoepffel* .....	Mapleton .....		400			
41	D. Roberts .....	do .....		400			
42	M. Rumble .....	Peoria .....		380			
43	J. Dalton .....	Elmwood .....		380			
44	J. Green* .....	Hanna City .....		375			
45	D. H. Curran* .....	Oak Hill .....		320			
46	J. Birdus .....	Peoria .....		320			
47	J. Rook .....	Brimfield .....		310			
48	Third vein Coal Co., No. 2 .....	Mapleton .....		302			
49	J. Gooden .....	do .....		300			
50	Black Bros. .....	do .....		280			
51	Clark & Rook .....	Brimfield .....		280			
52	Mike Cluskey .....	do .....		250			
53	T. Jones .....	Peoria .....		210			
54	T. Dawson .....	Hanna City .....		200			
55	Ed. Seigee* .....	Oak Hill .....		200			
56	Harris & Son* .....	Hanna City .....		200			
57	J. Saunders .....	Monica .....		180			
58	W. Englekey .....	Peoria .....		150			
59	Ed. Slane .....	Oak Hill .....		120			
60	T. Bohannon* .....	Hanna City .....		100			
61	John Richiger* .....	Mapleton .....		80			
62	B. Wolford* .....	Hanna City .....		40			
63	K. Armfield* .....	do .....		40			
64	J. Scott .....	Oak Hill .....		39			
65	S. B. Wasson .....	Laura .....		38			
66	S. Harper .....	Hanna City .....		36			
67	Hibberd & Snedden .....	Peoria .....		9,100			
68	Limestone Coal Co .....	do .....		2,674			
Totals .....				136,614			
Totals—87 mines .....			211,079	529,631		57,330	70,297

\* New mines.

Mines in 1904, 69.

New mines, 18.

Mines in 1905, 87.

*Peoria County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.		
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.
											Number.
.....	400	\$ 600	.....	.....	490	.....	100	400	.....	.....	2 38
.....	400	600	.....	.....	400	.....	100	400	.....	.....	2 39
.....	400	600	.....	.....	400	.....	110	400	.....	1	2 40
.....	400	600	.....	.....	400	.....	120	400	.....	.....	2 41
.....	390	585	.....	.....	390	.....	200	390	.....	.....	2 42
.....	380	780	.....	.....	380	.....	100	380	.....	1	2 43
.....	375	562	.....	.....	375	.....	100	375	.....	.....	2 44
.....	320	480	.....	.....	320	.....	150	320	.....	.....	2 45
.....	320	480	.....	.....	320	.....	100	320	.....	.....	2 46
.....	310	620	.....	.....	310	.....	150	310	.....	.....	2 47
.....	302	453	.....	.....	302	.....	25	302	.....	1	2 48
.....	300	450	.....	.....	300	.....	75	300	.....	.....	2 49
.....	280	420	.....	.....	280	.....	70	280	.....	.....	2 50
.....	280	560	.....	.....	280	.....	150	280	.....	1	2 51
.....	250	500	.....	.....	250	.....	120	250	.....	1	2 52
.....	210	315	.....	.....	210	.....	175	210	.....	1	1 53
.....	200	300	.....	.....	200	.....	100	200	.....	1	2 54
.....	200	250	.....	.....	200	.....	100	200	.....	1	2 55
.....	200	400	.....	.....	200	.....	50	200	.....	1	2 56
.....	180	270	.....	.....	180	.....	75	180	.....	.....	2 57
.....	150	225	.....	.....	150	.....	80	150	.....	.....	1 58
.....	120	180	.....	.....	120	.....	75	120	.....	.....	2 59
.....	100	150	.....	.....	100	.....	40	100	.....	.....	2 60
.....	80	120	.....	.....	80	.....	280	80	.....	.....	2 61
.....	40	60	.....	.....	40	.....	20	40	.....	.....	1 62
.....	40	60	.....	.....	40	.....	25	40	.....	.....	1 63
.....	39	58	.....	.....	39	.....	20	39	.....	.....	1 64
.....	38	57	.....	.....	38	.....	60	38	.....	.....	1 65
.....	36	54	.....	.....	36	.....	20	36	.....	.....	1 66
.....	9,100	13,650	.....	.....	9,100	.....	192	9,100	18	5	23 67
.....	2,674	4,011	.....	.....	2,674	.....	134	2,674	5	3	8 68
.....	136,614	\$210,812	.....	.....	136,614	.....	146	136,614	281	80	361
36,555	904,892	\$1,046,970	706,695	15,310	166,895	15,992	.....	904,892	1,095	402	1,497



*Schuyler County—Third District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Keer & Baxter .....	Rushville .....		3,500			
2	Williams & Clark .....	do. ....		2,600			
3	George Montooth .....	Ray .....		2,500			
4	Ralph Strong .....	Pleasant View .....		2,000			
5	Wm. Cummings .....	Rushville .....		1,715			
6	Ray Tile Works .....	Ray .....		1,560			
7	O. A. Spiller .....	Frederick .....		1,040			
8	Simon Parliwood .....	Littleton .....		1,020			
9	Hedrick & Wetmore .....	Frederick .....		890			
10	Cliford Spiller* .....	Pleasant View .....		800			
11	Alfred Nasbey .....	Pine Grove .....		800			
12	George Edwards .....	Huntsville .....		640			
13	O. A. Alexander .....	do. ....		502			
14	F. W. Croxton .....	Pleasant View .....		500			
15	John Cagle .....	Frederick .....		451			
16	Ed. Duffy* .....	Rushville .....		450			
17	Cagle & Spiller .....	Frederick .....		360			
18	C. D. Cummings* .....	do. ....		142			
Totals—18 mines .....				21,470			

\* New mines.  
Mines in 1904—15.  
New mines—3.  
Mines in 1905—18.

*Schuyler County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
.....	3,500	\$4,375	.....	.....	3,500	.....	140	3,500	2	1	7	1
.....	3,250	3,250	.....	.....	3,250	.....	130	3,250	7	1	8	2
.....	3,500	4,375	.....	.....	3,500	.....	87	3,500	6	1	7	3
.....	2,500	2,500	.....	.....	2,000	.....	210	2,000	4	1	5	4
.....	1,715	1,929	.....	.....	1,715	.....	120	1,715	6	1	7	5
.....	1,560	2,730	.....	.....	1,560	.....	210	1,560	4	1	5	6
.....	1,040	1,580	.....	.....	1,040	.....	160	1,040	5	1	6	7
.....	1,020	1,530	.....	.....	1,020	.....	155	1,020	4	.....	4	8
.....	890	1,335	.....	.....	890	.....	150	890	4	.....	5	9
.....	800	1,200	.....	.....	800	.....	120	800	4	.....	4	10
.....	800	1,400	.....	.....	800	.....	190	800	4	.....	4	11
.....	640	1,120	.....	.....	640	.....	200	640	2	1	3	12
.....	502	879	.....	.....	502	.....	120	502	4	1	5	13
.....	500	750	.....	.....	500	.....	90	500	3	1	4	14
.....	451	676	.....	.....	451	.....	100	451	3	.....	3	15
.....	450	563	.....	.....	450	.....	120	450	3	.....	3	16
.....	360	540	.....	.....	360	.....	90	360	2	.....	2	17
.....	142	248	.....	.....	142	.....	120	142	2	.....	2	18
.....	21,470	\$30,960	.....	.....	21,470	.....	140	21,470	73	11	84	

*Tazewell County—Third District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Tazewell Coal Co. ....	Pekin .....	45,443	17,275	.....		8,415
2	Phoenix Coal Co. No. 1. ....	Peoria .....	57,485		.....		
3	Erie Starr Coal Co. ....	do .....	11,000	10,000	.....		
4	Lake Erie Coal & M. Co. ....	do .....	6,000	12,000	.....		
Totals .....			119,928	39,275	.....		8,415
LOCAL MINES.							
1	Grossweiler & Co. ....	East Peoria .....	1,000	12,200	.....		
2	A. G. Cummings .....	do .....	800	11,000	.....		
3	Grant Bros. ....	Pekin .....	10,588		.....		
4	Eastern Coal Co. ....	East Peoria .....	7,575		.....		
5	Chapman & Petrie Coal Co. ....	Pekin .....	4,758		.....		
6	G. Giebelhausen .....	do .....	6,132		.....		
7	Manhattan Coal Co. ....	East Peoria .....	6,000		.....		
8	Bohlander Bros. ....	Pekin .....		4,500	.....		
Totals .....			36,853	27,700	.....		
Totals—12 mines. ....			156,781	66,975	.....		8,415

Mines in 1904, 13.  
Mines abandoned, 1.  
Mines in 1905, 12.

*Tazewell County—Third District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employés.	Total.	
730	71,863	\$74,288	66,321	.....	4,812	730	288	71,863	80	27	107	1
.....	57,485	66,108	56,485	.....	.....	1,000	240	57,485	75	25	100	2
1,000	22,000	24,500	14,000	.....	7,400	600	200	22,000	26	7	33	3
800	18,800	22,000	14,200	.....	4,200	400	210	18,800	24	6	32	4
2,530	170,148	\$186,896	151,008	.....	16,412	2,730	235	170,148	205	67	272	
.....	13,200	\$19,300	.....	.....	13,200	.....	196	13,200	10	5	15	1
.....	11,800	17,300	.....	.....	11,800	.....	180	11,800	12	2	14	2
300	10,888	13,385	.....	.....	10,888	.....	185	10,888	8	2	10	3
.....	7,575	7,575	.....	.....	7,575	.....	200	7,575	10	5	15	4
.....	4,758	5,948	.....	.....	4,758	.....	157	4,758	6	3	8	5
.....	6,132	7,665	.....	.....	6,132	.....	180	6,132	7	2	9	6
.....	6,000	7,500	.....	.....	6,000	.....	200	6,000	8	2	10	7
.....	4,500	7,875	.....	.....	4,500	.....	220	4,500	4	2	6	8
300	64,853	\$86,548	.....	.....	64,853	.....	190	64,853	65	22	87	
2,830	235,001	\$273,444	151,006	.....	81,263	2,730	.....	235,001	270	84	359	

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Average value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Fulton .....	20	1,379,604	142,618	610,395	226,376	77,196	231,995	91,024	\$1,554,592
Hancock .....	1	8,500	.....	8,500	.....	.....	.....	.....	14,875
McDonough.....	2	12,175	.....	12,175	.....	.....	.....	.....	18,263
Menard .....	9	435,793	106,822	225,802	2,263	15,941	65,862	19,103	446,918
Peoria.....	19	768,278	211,079	393,017	.....	57,330	70,297	36,555	836,158
Tazewell.....	4	170,148	119,928	39,275	.....	.....	8,415	2,530	186,896
Totals and av. ....	55	2,774,498	580,447	1,289,164	228,639	150,467	376,569	149,212	\$3,057,702

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Average value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Cass.....	2	2,590	.....	2,590	.....	.....	.....	.....	\$ 4,533
Fulton .....	30	59,885	7,100	52,785	.....	.....	.....	.....	86,863
Hancock.....	4	3,060	.....	3,060	.....	.....	.....	.....	6,120
McDonough.....	70	31,769	.....	31,769	.....	.....	.....	.....	64,666
Menard .....	7	12,640	.....	12,640	.....	.....	.....	.....	22,120
Peoria .....	68	136,614	.....	136,614	.....	.....	.....	.....	210,812
Schuyler.....	18	21,470	.....	21,470	.....	.....	.....	.....	30,960
Tazewell.....	8	64,853	36,853	27,700	.....	.....	.....	300	86,548
Totals and av. ....	207	332,881	43,953	288,628	.....	.....	.....	300	\$512,622
Totals, district—all mines .....	262	3,107,379	624,400	1,577,792	228,639	150,467	376,569	149,512	\$3,570,324

Whole number of mines reported in 1904, 238.  
 Number of new mines opened during the year, 35.  
 Number of mines abandoned during the year, 11.  
 Whole number of mines reported for 1905

*Third District—1905—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.		By hand.	By machine.	Hand mining.	Machine mining.
1,445	622	2,067	1,286,138	32,435	26,258	34,773	201	1,379,604	.....	\$0.59	.....
12	2	14	8,000	.....	500	.....	200	8,500	.....	1.25	.....
67	4	71	12,175	.....	.....	.....	211	12,175	.....	1.045	.....
535	241	776	383,454	3,103	25,443	23,793	193	435,793	.....	0.527	.....
814	322	1,136	706,695	15,310	30,281	15,992	189	768,278	.....	0.59	.....
205	67	272	151,006	.....	16,412	2,730	235	170,148	.....	0.59	.....
3,078	1,258	4,336	2,547,468	50,848	98,894	77,288	198	2,774,498	.....	\$0.58412	.....

*Third District—1905—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.		By hand.	By machine.	Hand mining.	Machine mining.
7	.....	7	.....	.....	2,590	.....	130	2,590	.....	\$0.56	.....
190	39	229	.....	.....	59,885	.....	135	59,885	.....	0.7148	.....
20	6	26	.....	.....	3,060	.....	184	3,060	.....	1.25	.....
205	17	222	.....	.....	31,769	.....	150	31,769	.....	1.50	.....
33	12	45	.....	.....	12,640	.....	170	12,640	.....	0.6875	.....
281	80	361	.....	.....	136,614	.....	146	136,614	.....	0.6891	.....
73	11	84	.....	.....	21,470	.....	140	21,470	.....	0.8026	.....
65	22	87	.....	.....	64,853	.....	190	64,853	.....	0.59	.....
874	187	1,061	.....	.....	332,881	.....	148	332,881	.....	\$0.76322	.....
3,952	1,445	5,397	2,547,468	50,848	431,775	77,288	.....	3,107,379	.....	.....	.....

## FOURTH INSPECTION DISTRICT—1905.

### TWENTY-SECOND ANNUAL REPORT.

Counties—Christian, Edgar, Logan, Macon, McLean, Shelby, Vermilion,  
Woodford.

THOMAS WEEKS, *Inspector*, Bloomington.

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with the law of the State of Illinois, defining the duties of the State Inspectors of Coal Mines, I have the honor to herewith submit the twenty-second annual report of the coal mines in the Fourth Inspection district. The tabular statements in this report contain the different items called for in the schedules.

The following is a summary of the items contained in the report:

Number of mines.....	101
Number of new mines.....	26
Number of abandoned mines.....	21
Number of shipping mines.....	45
Number of local mines.....	56
Tons of mine run coal.....	2,658,764
Tons of lump coal.....	1,131,891
Tons of egg coal.....	51,471
Tons of nut coal.....	194,102
Tons of pea or screenings coal.....	314,155
Tons of slack or waste coal.....	127,749
Total tons of all grades of coal.....	4,477,632
Total output for six months ended December 31, 1904.....	2,163,195
Total output for six months ended June 30, 1905.....	2,305,682
Average value of coal per ton, mine run, shipping mines.....	\$1.1668
Average value per ton of lump, shipping mines.....	\$1.415
Average value per ton of egg, shipping mines.....	\$1.3164
Average value per ton of nut, shipping mines.....	\$0.9972
Average value per ton of pea or screenings, shipping mines.....	\$0.4325
Average value per ton of slack or waste, shipping mines.....	\$0.2839
Aggregate value of total product, all mines.....	\$5,142,840
Tons loaded on cars for shipment.....	3,517,943
Tons supplied to locomotives at mines.....	196,029
Tons sold to local trade.....	565,496
Tons consumed or wasted at the mines.....	198,164
Average number of days of active operation, shipping mines.....	206
Tons mined by hand.....	4,169,065
Tons mined by machine.....	308,567
Number of machines in use.....	46
Number of miners.....	5,000
Number of other employes underground.....	1,503
Number of boys underground.....	224
Number of employes above ground.....	714
Total number of all employes.....	7,441
Number of kegs of powder consumed.....	115,838
Amount of dynamite used, pounds.....	6,815
Number of fatal accidents.....	40
Number of non-fatal accidents.....	102

Number of wives made widows.....	25
Number of children left fatherless.....	58
Number of employes to each fatal accident.....	186
Number of tons of coal to each fatal accident.....	111,941
Ratio of fatal accidents per 1,000 persons employed.....	5.2
Number of employes to each non-fatal accident.....	73
Number of tons of coal to each non-fatal accident.....	43,907

## NEW MINES.

The Stonington Coal Co. has completed the sinking of a new shaft at Stonington, Christian county, located on the Wabash railroad east of Taylorville. The seam is No. 6 of the geological section and at a depth of four hundred and eighty-one feet; the thickness of the coal is seven feet and three inches. The sinking of the escapement shaft was begun June 1, 1905, and will be completed by the time the tower, engine and boiler rooms are finished, and the necessary machinery is in place.

The Dering Coal Co. of Westville has put in operation two new mines, Nos. 3 and 4, which were sunk last year and has also completed the escapement shaft to both of these mines.

The Century Coal Co. of Tower Hill, Shelby county, the Blue Mound Coal Co. of Blue Mound and the Manufacturers and Consumers Coal Co. of Decatur, Macon county have also completed escapement shafts during the last year.

## ABANDONED MINES.

There has been no large mines abandoned during the year. However, a number of small mines have been abandoned, or have gone out of business, while a like number have taken their places, so that the total number of mines is about the same as last year.

## PROSPECTIVE MINES.

The Lovington Coal Mining Co., Lovington, Moultrie county, is still going on with sinking operations of its mine at that place; the sinking is now down to the solid strata, a depth of one hundred and sixty feet from the surface. During the sinking fifty-five feet of sand and gravel was encountered, also an immense quantity of water had to be contended with. The company is now putting in inside timbers and concrete, after the completion of which it does not anticipate any more trouble in sinking the shaft.

The Vermilion County Coal Co. has begun the sinking of a new shaft on the Big Four railroad near Georgetown, Vermilion county.

## IMPROVEMENTS.

The Citizen's Coal Co., Lincoln, Logan county, has installed a new Cappel fan, 15 feet in diameter, from which is expected a decided improvement in the ventilation of its mine.

The Newbent Coal Co., Pana, Christian county, has also put in a 12½-foot Cappel fan, which has greatly improved the ventilation in that mine; the company has also put in shaker screens.

The Penwell Coal Mining Co., Pana, Christian county, has raised the tower at its mine, and is also putting in shaker screens.

The Kelleyville Coal Co., Kelleyville, Vermilion county, has extended the electric haulage on the west side of its No. 2 mine of that place.

The Dering Coal Co., Westville, Vermilion county, has made valuable improvements during the year at its No. 2 mine. A compressed air punching machine of the Harrison type has been installed, operated by a Norwalk air compressor. This is only for the purpose of driving narrow work. A Westinghouse 150 K. W. Generator, driven by a 19x18 inch 200 R. P. M. Ideal engine has also been installed; this electrical equipment is for the purpose of furnishing power for running four gathering motors of the Westinghouse-Baldwin type, to haul coal from the rooms. It is expected, when these motors are thoroughly equipped with experienced operators, all the coal will be hauled from the rooms, dispensing with mules in this mine.



In addition, this company has sunk mines Nos. 3 and 4 during the year. The size of the hoisting shaft is 12 x 14 feet; the depth to the coal is 187 feet at the No. 3 mine and 204 feet at the No. 4. At the latter mine, the air and escapement shaft is completed and connections have been made. Connections at the No. 3 mine will be made within a very short time. The equipments at these mines are as follows: No. 3 is equipped with a 24 x 36 inch hoisting engine, made by the Aetna Foundry and Machine Co., of Springfield, Illinois, having a steam reverse and a steam brake, also an automatic cut-off. The cages are of the Halbert Automatic self-dumping type, using one and three-eighths inch cable; the cars are of 9,000 pounds capacity, making a very complete hoisting outfit.

The engine room, boiler room and blacksmith shop are built of hollow block made by the Ayer-McAyerel Co., of Brazil, Indiana, the floors are of concrete and the roofs are granite. Both of these mines are equipped with the Sullivan straight line air compressors, driving punching machines of the Sullivan type for the driving of narrow work only. The No. 4 mine is equipped with a 24 x 36 inch hoisting engine, manufactured by the Danville Foundry and Machine Co., also a Halbert Automatic self-dumping cage; this hoist will handle cars containing 9,000 pounds of coal at each lift. The boiler room is equipped with two 72 inch by 18 feet tubular boilers, with a working pressure of 150 pounds; the engine room, boiler room and blacksmith shop are of the same construction as at the No. 3 mine.

The Lincoln Coal Co. has repaired and installed the fan in the bottom of its mine, this is the fan used before the fire in this mine, December, 1903. It is expected that this will greatly improve the ventilation in the mine.

#### BUSINESS CHANGES.

The Kelleyville Coal Co., has disposed of its mines in Vermilion county to a company known as the Kelly Coal Co., which is now operating them, with the exception of mines Nos. 2 and three, which have not been working for three months. This change took place about the first of the year, 1905.

The Dering Coal Co. has purchased and is now operating the four mines formerly owned by the Westville Coal Co., Nos. 1 and 2, and are located in South Westville; No. 3 in Georgetown township and No. 4 in Catlin township, all in Vermilion county.

The Consumers' Coal Co., Chenoa, McLean county, has sold its mine at Chenoa, to the Illinois Coal Mining and Coke Co., of Chicago.

F. W. Davis has sold his mine at Muncie, Vermilion county, to the Atherton Coal Co., which in turn sold it to the Central Coal and Coke Co., of Chicago.

The Manufacturers' Fuel Co. has disposed of its Springside mine at Pana, Christian county, which was not operated last year, to the Smith-Lohr Co., also of Pana.

#### ENFORCEMENT OF THE MINING LAW.

During the year some six or seven miners in Vermilion county have been arrested and fined for violation of that part of the mining law relating to drilling and firing dead holes. While fortunately no serious consequences followed from these violations of the law, several of the men were burned and bruised slightly. These prosecutions have had a salutary effect as no more violations of the law have been observed.

June 8, 1905 through the State's Attorney of Shelby county I made application for injunctions to restrain Widick Brothers, Brophy Brothers, W. W. Turney, M. R. Williams, and Hickey & Kingston, from the further operation of their mines, until they provided escapement shafts as required by law. All of these operators had persistently disregarded my instructions as to escapement shafts. The injunctions were granted in all the cases except Hickey and Kingston; the judge deciding that, as this firm did not employ any miners, were not required to have an escapement shaft.

## MINE FIRE.

January 16, 1905. shortly after noon, a fire broke out in mine No. 1 of the Decatur Coal Co., Decatur, Macon county, which resulted in the death of six men as follows: August Yagusch, miner aged 51 years; Charles Lachinski, driver, aged 35 years; Emil Knorr, miner aged 17 years; William Fagan, driver, aged 20 years; William Gollan, miner, aged 50 years; Paul Gollan, miner, aged 17 years; and endangering the lives of seven others, namely, John Dunn, Martin Cullen, Fred Knorr, William Kastner, Thomas Fagan, John Pride and August Rex, all of whom were cut off from escape by the fire; all of the other men working in the mine at the time, about sixty, escaped safely out of the workings.

The fire was discovered in the first north entry in the stable used to feed the mules, the stable being located about 2,100 feet from the bottom of the hoisting shaft. The mule feeder, Mr. Williams, went into that part of the mine about 1:30 o'clock P. M., and finding the fire attempted to extinguish it, but failing to do so, gave the alarm: Thomas Clark, mine manager, came to Williams' assistance and realizing the danger he at once sent runners around the mine to warn the men, and notify them to get out as soon as possible; all of the men escaped excepting those already named. On the first discovery of the fire, mine manager Clark also sent an alarm to the city fire department, which responded promptly, but, owing to the location of the fire so far underground, considerable time was consumed in preparing to get to the fire. A line of hose was connected to the nearest hydrant and carried to the shaft, a distance of seven hundred feet, and six hundred feet down the shaft, then inside twenty-one hundred feet to the fire, a total distance of thirty-four hundred feet. After several breaks in the hose, from the pressure due to the depth of the shaft in addition to the pressure from the pumps, the water was thrown on to the fire, and bringing the flames practically under control about six o'clock P. M. At this time John Dunn, Martin Cullen, Fred Knorr, William Kastner and Thomas Fagan, who were among the missing, came out of the first east entry and reported that the body of Lachinski was lying a few feet back in the entry, or about 50 feet from the fire; the body was at once secured and removed to the surface. About three o'clock the next morning John Pride another of the missing men came out at the main east entry and reported that August Rex was in room No. 43 on the first south entry, off of the first east and that he was still alive; a rescuing party went to the place indicated and brought Rex out, who was in a very bad condition, but was finally resuscitated and taken to the hospital. It is supposed that he will fully recover.

The bodies of William Gollan and Emil Knorr were found at the same place where Rex was found. This point is about twenty-seven hundred feet from the fire; search was then made for the other missing men, and the body of August Yagusch was found on the first east entry, about nineteen hundred feet from the fire; the bodies of William Fagan and Paul Gollan were not discovered until about 10:00 o'clock a. m., January 17, for the reason that both men had gotten off of the open road and into the third east entry which had been abandoned; when these bodies were found, they were only about two hundred and fifty feet from where the fire was first located. William Crankshaw was in the mine at this time and assisted in the recovery of these two bodies.

William Fagan and Charles Lachinski were drivers and had been sent to warn the men, as they were both familiar with the mine, they would no doubt have gotten out safely if they had followed the face of the workings, but from the location of their bodies when found, they evidently had tried to get out on the roads on which they hauled coal, the one on the first north entry and the other on the first east were both cut off by the fire, as it was located at the intersection of these two entries.

The fire was undoubtedly caused by sparks from a pipe or a partially consumed cigarette, probably the latter, as the drivers were said to be addicted to the use of cigarettes. The damage to the mine is only trifling, consisting of the burning of the timbers in the stables and six mules which were suffocated by the smoke.

Since this report was submitted the following account, taken from the "Labor World," published at Decatur, in its issue of Oct. 27, 1905, gives in detail the settlements made by the company in consequence of the foregoing deaths.

"All of the cases against the Decatur Coal Company, which resulted from the disaster in the mine last winter, Jan. 16, 1905, have been settled. Five cases were settled for \$13,500. The Fagan case was settled through the administrator appointed by the county court a few days since, \$2,500 being paid the family. The father of Fagan was for many years pit boss in the mine and he is now stricken and helpless and more was given the Fagan family than the other families, where an unmarried man was killed.

Several days ago the case for damages for the death of Emil Knorr was tried. The jury disagreed as to the amount of damages, but it was known that all were in favor of giving damages.

Wednesday the cases of Bertha Lachiniski, as administratrix of the estate of Charles Lachiniski, came up. The trial was started but before it was finished a compromise was reached in this, and in all other cases. In each judgment was entered formerly in court and the jury was instructed to return a verdict which was done in each case. The amounts paid were as follows:

For the death of Charles Lachiniski, \$3,000; for the death of William Gollan, \$3,000; for the death of Paul Gollan, \$2,000; for the death of Emil Knorr, \$2,000; for the death of August Yagusch, \$3,000. In the cases where the men were married, \$3,000, and the families of the unmarried men were given \$2,000. The costs were also paid by the coal company and this made a total of \$13,500, together with the \$2,500 paid the Fagan family, \$16,000 all told."

#### FATAL ACCIDENTS.

July 9, 1904, Anton Daniealus, miner, aged 31 years, married, employed in the Kellyville Coal Co.'s mine No. 4, Westville, Vermilion county, was fatally injured by a fall of rock; he was injured about 8 o'clock in the morning and died three hours afterwards. He leaves a widow and one child.

July 23, 1904, Woodford F. Pierce, a miner, aged 50 years, married, employed in the Kellyville Coal Co.'s mine No. 4, Westville, Vermilion county, was fatally injured by a fall of rock about 7:30 a. m. He died from the injuries received about 1 o'clock p. m. the same day. He leaves a widow and two children.

August 11, 1904, Louis Rossini, miner, aged 47 years, married, employed in the Westville Coal Co.'s mine No. 1, South Westville, Vermilion county, was instantly killed by a fall of rock, which came from a coal slip. The room, in which he was working, is No. 19, off of the 10th northwest entry and was in good condition, otherwise, and was well timbered. He leaves a widow and two children.

August 22, 1904, Anton Yaranska, miner, aged 27 years, single, employed in the Kellyville Coal Co.'s Himrod mine, was fatally injured by a fall of rock. The deceased, who had driven his room into another in the opposite direction, was engaged in mining the coal out between the two rooms, when a large piece of rock fell on him with the result as stated. He died about ten hours after the accident.

September 17, 1904, William Bavries, miner, aged 40 years, married, employed in mine No. 3 of the Kellyville Coal Co., Westville, Vermilion county, was instantly killed by a fall of rock. The deceased and his partner had fired two shots in their room about 3 o'clock p. m., the above date; after the shots had exploded, Bavries went back to the face of the room to see the result of the shots, when a large piece of rock fell on him with the result stated.

September 23, 1904, Michael Alunis, miner, aged 26 years, single, employed in the Kellyville Coal Co.'s mine No. 3, Westville, Vermilion county, was instantly killed by a fall of rock about 10:30 a. m. of the above date.

October 3, 1904, Anton Portsus, miner, aged 35 years, married, employed in the Kellyville Coal Co.'s mine No. 2, Kellyville, Vermilion county, was injured by a falling rock from the effects of which he died Feb. 20, 1905. He leaves a widow and one child.

October 8, 1904, Victor Malavale, miner, aged 41 years, married, employed in mine No. 4 of the Kellyville Coal Co., Westville, Vermillion county, was instantly killed in the face of the first south entry, about 12:10 p. m. of the above date. Deceased was engaged in loading a car when a piece of rock about eight feet long and three feet wide, and two feet thick fell on him with the result as stated.

October 13, 1904, Peter Barrista, timberman, aged 35 years, single, employed in the Jones and Adams Co.'s mine, located at Catlin, Vermillion county, was engaged in pulling up a cross-bar and was struck on the head by falling rock, about 9 p. m. the above date; apparently he was not hurt very much as he walked home from the mine, but gradually became worse during the night, and died about 10 o'clock the next morning, the blow on his head produced concussion of the brain.

October 20, 1904, Mike Gereverak, driver, aged 31 years, married, employed in the Minonk Coal Co.'s mine, Minonk, Woodford county, was fatally injured by being crushed between loaded pit cars. He died three days afterwards, leaving a widow and three children.

November 15, 1904, William Meyer, miner, aged 51 years, married, employed in the Kelleville Coal Co.'s Pawnee mine, Grape Creek, Vermillion county, was instantly killed by a falling rock. The accident occurred about 7:30 a. m. Deceased was loading coal into the mine car standing about 20 feet back from the face of his room, when the rock, which he knew was in a dangerous condition, fell on him. He leaves a widow and five children.

November 28, 1904, Mike Hartor, miner, aged 55 years, married, employed in the Newbent Coal Co.'s mine, Pana, Christian county, was instantly killed by falling coal. Deceased was engaged in mining or undercutting the coal in his working place. He had undercut the coal to a depth of seven feet, but had failed to put in sufficient sprags as supports, part of the coal fell striking him and breaking his neck. He leaves a widow and two children.

December 3, 1904, Teddy Tannell, miner, aged 48 years, single, employed in the Consolidated Coal Co.'s mine, Fairmount, Vermillion county, was fatally burned by the explosion of powder at 11 a. m. of the above date, from the effects of which he died two days afterwards. Deceased had opened a keg of powder for the purpose of charging his shots, he had some doubts as to whether or not the fuse he was about to use was a good one, to test it he cut off a piece of the fuse and lighted it, throwing it on the ground, the test proved successful as it ignited the keg of powder with the result as stated.

December 4, 1904, John Satigna, miner, aged 33 years, married, employed in the Jones and Adams Co.'s mine, Catlin, Vermillion county, was fatally injured by flying coal from a shot. Deceased was in his room alone at the time of the accident, his partner having gone home after lighting the shot, he attempted to get out of the room, but lost his light and was unable to reach a place of safety. He received his injuries about 1:30 p. m. and died at 8:30 the same day. He leaves a widow and five children.

December 7, 1904, Martin Morawski, miner, aged 38 years, single, employed in the Kelleyville Coal Co.'s Himrod mine, Himrod, Vermillion county, was instantly killed by falling coal from a standing shot, which he was working out, the accident occurred at 11:30 a. m.

December 15, 1904, Joe Yanushitis, miner, aged 22 years, married, employed in the Christian county Coal Co.'s mine, Taylorville, Christian county, was fatally injured by falling coal in room No. 14, first northeast entry. Deceased had fired a shot on the left side of his room, after it had been mined by the machine, the shot failing to throw the coal down, instead of taking it down he began loading his car and while doing so the coal fell, striking him on the forehead fracturing the skull. He died before reaching the surface, leaving a widow and one child.

December, 19, 1904, Raschi Ewangetista, miner, aged 45 years, single, employed in Mine No. 2 of the Kellyville Coal Co., Kellyville, Vermillion county, was instantly killed by flying coal from a shot; just how the accident occurred cannot be clearly shown as the body was not discovered until the night men went to work at 7 p. m., the shot having been fired about 3:15 p. m., his partner supposed deceased had gone out to the bottom on one entry, while he went out on the opposite one.

January 11, 1905. Joseph Battushi, miner, aged 38 years, married, employed in the Pawnee mine of the Kelly Coal Co., located at Grape Creek, Vermilion county, was fatally injured by falling rock in the face of his working room at 2:30 p. m. and died from his injuries about 11:30 the same day. He leaves a widow and two children in the old country.

January 12, 1905. Hugh Morgan, miner, acting as a shot-firer, aged 23 years, single, employed in the mine of the Latham Coal Co., Lincoln, Logan county, was fatally injured by flying coal from a shot and died from his injuries three days afterwards. Deceased with his partner had gone into a room for the purpose of firing two shots; the shot Morgan lighted exploded before he could reach a place of safety, with the result as stated.

The following is the conjugal relations of the six men who lost their lives in the mine fire at Decatur, the details of which have been given:

January 16, 1905. August Yagusch, miner, aged 51 years, leaves a widow and five children. Charles Lachinski, driver, aged 33 years, leaves a widow and two children. Emil Knorr, miner, aged 17 years, single. William Fagan, driver, aged 30 years, single. William Gollan, miner, aged 50 years, leaves a widow and two children. Paul Gollan, a miner, son of William Gollan, aged 17 years, single.

January 21, 1905. Joe Glovitski, miner, aged 30 years, married, employed in the Kelly Coal Co.'s mine at Himrod, was injured by falling rock; he was standing in the neck of a room, where he had taken refuge, while his partner was firing a shot in the room in which they were working. He died in about twenty minutes after being taken from under the rock. He leaves a widow and four children.

January 24, 1905. Mathew Regis, miner, aged 40 years, married, employed in the mine of the Roanoke Coal Mining Co., Roanoke, Woodford county, was instantly killed by falling coal. His head was caught between the coal and a prop. He leaves a widow and two children.

February 2, 1905. Tony Norkis, powderman, aged 30 years, married, employed in mine No. 5 of the Kelly Coal Co., Westville, Vermilion county, was instantly killed by falling rock the evening of this date. Deceased was employed to deliver powder to the different rooms in the mine, the powder being sent into the mine in the evening for the next day's work; while in the performance of this duty, Norkis was struck by a falling rock with the result as stated. He leaves a widow and two children.

February 3, 1905. Charles Sabalunski, miner, aged 38 years, married, employed in mine No. 1 of the Dering Coal Co., South Westville, Vermilion county, was fatally injured by falling rock. He died the next day. Deceased was mining out a standing shot, when the rock which had been loosened by a shot fell on him with the result as stated. He leaves a widow and three children.

February 11, 1905. August Seaburg, miner, aged 39 years, single, employed in mine No. 5 of the Kelly Coal Co., Westville, Vermilion county, was injured by falling rock from the effects of which he died March 8, 1905.

February 11, 1905. Alexander Capron, Miner, aged 30 years, married, employed in the mine of the Assumption Coal & Mining Co., Assumption, Christian county, was instantly killed on the right hand side of his working place by a fall of rock about 3 p. m. This was an accident that could not have been foreseen or guarded against, as there was a slip in the roof which lay outwards from the face of the coal, the mine being worked long wall and as soon as the coal was taken down, the rock, which was about ten feet long, four feet wide, and two and one-half feet thick, fell between the coal face and the building, catching Capron, crushing out his life. He leaves a widow and two children.

March 3, 1905. Fred A. Carter, miner, aged 18 years, single, employed in the mine of the Electric Coal Co., near Danville, Vermilion county, was fatally injured by falling coal, while working off a standing shot, from the effects of which he died three days afterwards.

March 10, 1905. Joseph Friddle, topman, aged 31 years, married, employed in the mine of the Stonington Coal Co., Stonington, Christian county, was instantly killed by falling down the shaft; the accident occurred about 10 p. m., while the men were changing shifts, the shaft being in process of sink-

ing. Deceased was alone at the top of the shaft, and no one saw him fall, but the supposition is that he lost his balance while raising the door which covered the top of the shaft, falling to the bottom, a distance of 370 feet. He leaves a widow and three children.

March 21, 1905, George Carrington, miner, aged 34 years, married, employed in mine No. 5 of the Kelly Coal Co., Westville, Vermilion county, was injured by falling rock while working down loose coal from a standing shot, from the effects of which he died April 13, 1905. He leaves a widow and one child.

March 27, 1905, Peter Waitkuis, miner, aged 34 years, single, employed in mine No. 2 of the Kelly Coal Co., at Kellyville, Vermilion county, was fatally injured by falling rock while working down a standing shot. He died from the effects of the accident the next day.

May 13, 1905, Eli Dinguel, miner, aged 24 years, single, in the employ of the Roanoke Coal & Mining Co., Roanoke, Woodford county, was instantly killed by falling rock and timber about 8:00 p. m.

May 19, 1905, Garrett Mann, Jr., driver, aged 24 years, single, in the employ of the Latham Coal Co., Lincoln, Logan county, was fatally injured by being crushed between loaded pit cars. The accident occurred about 7:30 a. m.: he died about two hours afterwards.

May 19, 1905, Jonas Stankevics, miner, aged 45 years, single, employed by the Kelly Coal Co. at its Pawnee mine, located on Grape Creek, Vermilion county, was fatally injured by falling rock about 11:30 a. m., and died before reaching the surface.

May 25, 1905, Leonard Stone, miner, aged 36 years, married, employed in mine No. 2 of the Kelly Coal Co., Kellyville, Vermilion county, was instantly killed by flying coal from a shot. Deceased had gone back in his room to light a fuse, which he had previously attempted to light, but thought he had failed to do so, when he got back into the face of his room and opposite the shot it exploded with the result as stated. He leaves a widow and four children. Deceased came to this country from England about nine months before his death.

June 28, 1905, Thomas McGray, driver, aged 24 years, married, employed in the Moweaqua Coal Mining & Manufacturing Co.'s mine, Moweaqua, Shelby county, was instantly killed by being crushed between a mule and loaded pit cars.

In concluding this report I wish to acknowledge the ready and serviceable assistance of the several county mine inspectors of this district.

Respectfully submitted,

THOMAS WEEKS,

*State Inspector of Mines, Fourth District, Bloomington, Ill.*



*Recapitulation of Fatal Casualties—Fourth District—1905.*

RESIDENCE.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Assumption ..	1	Drivers .....	5	Falling coal.....	4	Assumption Coal Co.....	1
Catlin .....	2	Miners .....	31	Falling down sh'ft	1	Christian County C. C. ....	1
Danville .....	3	Powderman .....	1	Falling rock.....	21	Decatur Coal Co.....	6
Decatur .....	6	Shotfirer .....	1	Flying coal.....	4	Dering Coal Co.....	1
Fairmount ..	1	Timberman.....	1	Pit cars.....	3	Fairmount Coal Co.....	1
Grape Creek ..	1	Topman.....	1	Powder explosion	1	Electric Coal Co.....	1
Himrod .....	3			Suffocation, mine		Himrod Coal Co.....	3
Kelleyville ..	4			fire .....	6	Illinois Colliery Co.....	2
Lincoln .....	2					Kelley Coal Co.....	12
Minonk .....	1					Latham Coal Co.....	2
Moweaqua .....	1					Minonk Coal Co.....	1
Pana .....	1					Moweaqua Coal Co.....	1
Roanoke .....	2					Newbent Coal Co.....	1
Stonington ..	1					Pawnee Coal Co.....	3
Taylorville ..	1					Roanoke Coal Co.....	2
Westville .....	10					Stonington Coal Co.....	1
						Westville Coal Co.....	1
Totals .....	40		40		40		40

*Non-Fatal Casualties—Fourth District—July 1, 1905.*

Date.	NAME.	Age.	Residence. (Town.)	Married. Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1901.								
July	5 George Hall.....	21	Moweaqua .....	1	1	2	Leg broken, flying coal....	90
	6 T. Hodnett.....	30	Lincoln .....	1			Leg broken, pit car.....	90
	8 Chas. Bennett.....	37	Grape Creek ..	1	5	6	Leg broken, falling rock....	60
	12 Oscar Brown.....	24	do .....	1			Shoulder dislocated, falling rock .....	100
	19 John Star.....	38	Missionfield ..	1		1	Leg broken, iron rail.....	60
	20 John Millwood.....	40	Westville .....	1			Leg broken, falling rock....	80
	26 Geo. Wakeland.....	20	Grape Creek ..	1			Body burned with powder.	35
	29 Archie Cabell.....	17	Danville .....	1			Leg broken, falling rock....	48
Aug.	3 Gust Bitsburg.....	58	Bloomington ..	1	3	4	Fingers crushed, fall'g rock	70
	11 Fred Novak, Jr.....	16	Pana .....	1			Arm broken, pit cars.....	32
	26 James Templeton.....	50	do .....	1	2	3	Collar bone broken, falling coal .....	63
Sept.	27 Wm. Yemmis.....	27	Taylorville ..	1			Knee crushed, falling slate*	307
	10 Frank Hushman.....	16	Roanoke .....	1			Back and hips bruised, pit cars .....	52
	10 John Burke.....	29	Assumption ..	1	4	5	Leg broken, falling coal....	88
	20 D. Collins.....	50	Moweaqua .....	1			Ribs broken, falling slate....	30
	21 Wm. Powers.....	40	Decatur .....	1	2	3	Body injured, mine door and pit car .....	90
	22 Peter Girber.....	35	Westville .....	1	1	2	Back injured, falling rock....	30
Oct.	31 Geo. Kamsathy.....	38	Georgetown ..	1	3	4	Leg broken, falling rock....	90
	4 J. Asteseno.....	26	Roanoke .....	1			Leg broken, falling coal....	85
	4 Charles Adams.....	35	Catlin .....	1	1	2	Body injured, falling rock....	60
	6 Tom George.....	28	do .....	1	2	3	Body injured, between pit cars .....	52
	7 Wm. Long.....	49	Danville .....	1	1	4	Body injured, falling coal....	150
	8 Joe Sapaskie.....	33	Westville .....	1			Arm and leg broken, falling rock .....	90
	12 Charles Engle.....	29	Danville .....	1	2	3	Arm broken, falling rock....	120
	13 Tom Page.....	26	Grape Creek ..	1			Ribs broken, falling rock....	60
	21 Ed Maher.....	16	Danville .....	1			Leg injured, empty pit car	30
	22 Wm. Smallwood.....	45	Assumption ..	1	6	7	Leg broken, repairing pipe	60
Nov.	31 Wm. Goughtry.....	19	Pana .....	1			Foot crushed, falling coal....	200
	9 Tony Motrosh.....	37	Himrod .....	1			Pelvis bone broken, falling rock .....	200
	9 J. C. Plumbry.....	47	Fairmount.....	1			Ankle broken, falling coal....	60
	14 Charles Franks.....	40	Danville .....	1			Head and back injured, falling rock .....	40



## Non-Fatal Accidents—Fourth District—Continued.

DATE	NAME	Age	Residence-Town	Married	Single	Children	No. persons dependent	Character of Injury and Cause of Accident	Time lost days
<b>1904.</b>									
Nov.	14 Tony Polosh	30	Westville	1				Leg broken, falling rock	90
	14 J. Wanashie	25	Lincoln	1				Hips injured between pit cars	30
	18 Frank Scher	48	Danville	1	1	2		Body injured, falling rock	90
	19 N. Saddlemeier	34	Roanoke	1	6	7		Knee cap broken, falling off trestle	94
	23 J. M. Henderson	31	Moweaqua	1	5	6		Back injured, falling slate	60
	25 A. Samock	24	Westville	1				Arm broken, falling rock	60
	28 Lee Kohn	53	Colfax	1	6	7		Arm broken, falling off R. R. car	90
	29 Ralph Gimble	40	Westville	1	2	2		Ankle injured, falling coal	30
	30 Joe Markie	38	do	1	1	2		Arm injured, falling rock	30
Dec.	1 Chas. Smith	22	do	1				Foot injured, falling rock	30
	3 Joseph Radcliffe	50	Danville	1	7	8		Back injured, falling rock	60
	10 George Ryks	39	Westville	1				Arm injured, falling rock	40
	13 Thomas Oseland		Decatur	1				Back and hips injured, falling off pit car	83
	13 Lee Budds	27	Pana	1	1	2		Arm broken, falling coal	150
	13 Telt Budds	35	do	1				Leg broken, falling coal	200
	15 Robert Keefe	24	Colfax	1				Collar bone fractured, and hip injured, falling rock	180
	15 H. Tinsley	40	Lincoln	1	5	6		Body burned, powder exp.	125
	5 Philip Crusic	23	Westville	1				Leg broken, pit car	63
	19 Charles Schultz	30	Danville	1	3	4		Foot crushed, falling rock	42
	23 Matt Blackwell	47	Shelbyville	1	5	6		Leg broken, falling coal	40
	28 Frank Smith	25	Danville	1				Foot injured, falling rock	40
<b>1905.</b>									
Jan.	14 Fred Peace	40	Bloomington	1	8	9		Collar bone brkn'n, fall'g c'l.	124
	14 J. C. Holbrook	48	Tower Hill	1	6	7		Head injured, falling on descending cage	60
	16 August Rex	35	Decatur	1	2	3		Body injured, inhaling gas, mine fire	165
	18 W. H. Young	30	Shelbyville	1	2	3		Hip dislocated, falling rock	60
	21 Steve Wonsog	25	Moweaqua	1	1	2		Body bruised, falling slate	30
	21 Julius Lefsheski	22	Decatur	1				Ear cut, falling slate	32
	25 Andrew McFarland	19	Pana	1				Ankle inj'd, fall'g mine rail	32
	25 Harry Miller	34	Danville	1	2	3		Leg broken, falling rock	60
	28 Gred Dungowski	55	Decatur	1	4	5		Head cut, scalp torn, falling slate	153
	28 James Boon	50	Westville	1				Arm and chest bone brok'n, falling rock	56
	30 P. Sheppard	35	Catin	1	1	2		Body injured, falling timber, boiler room	30
Feb.	1 Frank Stochier	37	Himrod	1				Leg broken, falling rock	90
	9 Charles Stonek	32	Kellyville	1				Leg broken, falling rock	90
	10 Mark Roberts	30	do	1	1	2		Foot injured, falling rock	30
	11 Charles Wilkes	23	Himrod	1				Body burned, powder exp.	150
	20 Henry Mann	45	Lincoln	1	6	7		Head injured, falling coal	30
	24 Charles Ganners	28	Himrod	1				Back injured, falling rock	40
	27 C. Westbrook	25	Taylorville	1	2	3		Leg broken, falling rock	62
Mar.	1 W. Gross	19	Lincoln	1				Hand injured, falling coal	30
	9 Jas. Demlow	25	Danville	1				Foot crushed, motor	90
	11 C. F. Woods		Decatur	1				Back injured, falling off car	50
	11 Anton Bitoe	36	Westville	1				Back injured, falling rock	30
	16 Jas. Perluist	34	do	1				Arm inj'd, falling on cage	40
	16 Taylor Castul	60	Richland	1	4	2		Arm broken, falling coal	120
	18 M. Tobin	68	Bloomington	1				Foot injured, falling coal	35
	21 Thos. Thompson	50	Danville	1				Back injured, lifting timber	60
	31 Joe Fehr	26	do	1	1	2		Foot crushed, pit cars	40
Apr.	7 Stanley Telegar	30	Grape Creek	1	1	2		Back injured, falling rock	40
	8 Clarence Steele	34	Kellyville	1				Leg injured, falling coal	90
	9 Wm. Sivrak	30	Westville	1				Leg injured, falling rock	60
	22 M. Goodrich	34	do	1	1	2		Foot crushed, pit car and rib	35
Mar.	14 Jos. Mills	35	Tower Hill	1	1	5		Shoulder inj'd, fall'g rock	30
	4 Rinehard Oleson	23	Bloomington	1				Ankle injured, falling coal	42
May	6 Frank Cochrane	28	Assumption	1				Arm brok'n, coupl'g pit cars	30
	6 Thomas Daley	35	Lincoln	1				Shoulder inj'd, fall'g slate	65
	8 D. C. Wells	18	Danville	1	9	10		Back injured, falling rock	35
	12 Dom Sungle	34	Westville	1	1	2		Leg injured, mule falling	60
	15 Anton Andrewlis	38	do	1				Foot cut off, falling rock	+
	16 John Vaughn	54	Assumption	1				Body injured, falling coal	+
	20 Paul Vargo	52	Westville	1				Arm broken, falling rock	60
	27 Joe Bundick	36	do	1	2	3		Body burned, powder exp.	90

*Non-Fatal Casualties—Fourth District—Concluded.*

Date.	NAME.	Age.	Residence. (Town)	Married. Single.	Children.	No. persons dependent	Character of injury and cause of accident.	Time lost— days.
1905.								
June 4	Wm. McCullough	30	Tower Hill	1	1	2	Hand cut by gang saw.	30
5	Adam Yopski	45	Decatur	1	3	4	Ankle injured, falling slate	38
10	John Smith	28	Bloomington	1	1	3	Ankle broken, falling coal	35
15	John Muir	29	Pana	1	2	3	Ankle injured, falling coal	35
23	Bistea Ristodo	29	Kellyville	1	2	3	Leg injured, falling rock	60
24	Mike Dereska	35	Pana	1	1	1	Body injured, falling slate	65
27	Clay Fanght	23	Danville	1	1	1	Foot crushed, falling rock	60
28	Charles Anderson	35	Bloomington	1	1	1	Body injured, pit car	42
Apr. 17	George Mirute	40	Pana	1	1	1	Foot crushed, falling slate	30
	Totals 102			52	50	139	189	

\* Leg amputated.

† Foot amputated.

‡ Not returned to work July 1, 1905.

Total men injured	102
Not recovered July 1, 1905	3
Number recovered July 1, 1905	99
Time lost by men recovered—days	7,110
Average time lost by men recovered—days	72

*Recapitulation of Non-Fatal Casualties—Third District—1905.*

RESIDENCE.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Assumption	4	Car trimmer	1	Explosion, powd'r	1	Angelin, John	1
Bloomington	6	Daymen	4	Falling coal	19	Assumption Coal Co.	4
Catlin	3	Drivers	15	Falling on cage	2	Brophy Bros.	1
Colfax	2	Engineer	1	Falling from car	1	Century Coal Co.	3
Danville	15	Laborers	3	Fall'g from trestle	1	Christian County C. C.	2
Decatur	7	Mach'e helper	1	Falling rock	40	Colfax Coal Co.	2
Fairmount	1	Machine run'r	1	Falling slate	10	Consolidated Coal Co.	2
Georgetown	1	Miners	62	Falling timber	1	Decatur Coal Co.	4
Grape Creek	5	Rockman	1	Flying coal	2	Dering Coal Co.	12
Himrod	4	Shot firer	1	Gang saw	1	Jones & Adams	4
Kellyville	4	Sinker	1	Gas, inhaling	1	Kelly Coal Co.	35
Lincoln	6	Spragger	1	Iron rail	2	Latham Coal Co.	6
Missionfield	1	Timbermen	15	Lifting timber	1	McLean County C. Co.	6
Moweaqua	4	Topmen	3	Motor	1	Manufacturers Coal Co.	3
Pana	9	Trapper	1	Mule falling	1	Moweaqua Coal Co.	4
Richland	1	Trip rider	1	Pipe iron	1	Newbent Coal Co.	2
Roanoke	3			Pit cars	12	Pana Coal Co.	1
Shelbyville	2			Powder	3	Penwell Coal Co.	6
Taylorville	2			Railroad cars	1	Roanoke Coal Co.	3
Tower Hill	3			Switch	1	Runnell, J. A.	1
Westville	19						
Totals	102		102		102		102

*Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Fourth District—1905.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Ankles broken.....	4	2	2	4	270	67.5	3.92
Ankles injured.....	5	3	2	10	177	35.4	4.9
Arms broken.....	6	2	4	4	453	75.5	5.88
Arm and leg broken.....	2	1	1	7	180	90.00	1.96
Arms injured.....	3	1	2	2	120	40.00	2.94
Backs injured.....	11	6	5	29	480	43.64	10.78
Bodies injured.....	15	11	5	31	1,234	82.27	14.70
Collar bones broken.....	3	2	1	12	397	132.33	2.94
Ear cut off.....	1	1	1	.....	32	32.00	1.00
Finger injured.....	1	1	.....	4	70	70.00	1.00
Feet crushed.....	8	3	5	7	527	65.88	7.84
Foot cut off.....	1	.....	1	.....	.....	.....	1.00
Feet injured.....	3	1	2	1	105	35.00	2.94
Hands injured.....	2	1	1	2	60	30.00	1.96
Heads injured.....	4	3	1	19	283	70.75	3.92
Hips injured.....	2	1	1	3	90	45.00	1.96
Knee crushed.....	1	1	.....	.....	307	307.00	1.00
Knee cap broken.....	1	1	.....	7	94	94.00	1.00
Legs broken.....	18	9	9	37	1,446	80.33	17.65
Legs injured.....	5	2	3	5	300	60.00	4.90
Pelvis bone broken.....	1	.....	1	.....	200	200.00	1.00
Ribs broken.....	2	.....	2	.....	90	45.00	1.96
Shoulder dislocated.....	1	.....	1	.....	100	100.00	1.00
Shoulders injured.....	2	1	1	5	95	47.50	1.96
Totals, averages and percentages.....	102	52	50	189	7,110	72.00	100.00



*Christian County—Fourth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Springfield Coal Mining Co., No. 6	Taylorville....	147,517	64,693	9,105	88	7,447
2	Christian County C. Co., C.C.C.Co.	do.....	101,437	19,186			22,420
3	Penwell Coal Mining Co., Penwell	Pana.....	24,722	40,715	7,678	33,124	
4	Newbent Coal Co., North Mine....	do.....	24,025	41,270	5,720	10,230	22,450
5	Pana Coal Co.....	do.....	8,847	45,363	128	18,891	27,230
6	Assumption Coal & Mining Co.....	Assumption ..		52,353		18,216	21,465
7	Edinburg Coal Co.....	Edinburg.....		4,135			902
Totals.....			306,548	267,715	22,631	80,549	101,914

Mines reported for 1904—8.

New mines—0.

Abandoned Mines—1

Mines in 1905—7.

*Edgar County—Fourth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or Screenings.
LOCAL MINES.							
1	J. D. Witt Coal Co .....	Paris, RRNo11		5,390			
2	John N. Wellman*.....	Paris, RRNo10		160			
Totals—2 mines.....				5,550			

\*New mines.

Mines reported for 1904, 1.

New mines, 1.

Abandoned mines, 0.

Mines in 1905, 2.

*Christian County—Fourth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or Waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
210	229,060	\$216,731	147,517	51,369	14,322	15,852	190	229,060	183	95	278	1
4,256	147,299	122,105	132,936	.....	10,107	4,256	202	.....	88	93	181	2
28,263	134,502	127,059	100,798	8,335	16,714	8,655	136	134,502	170	86	256	3
13,640	117,335	97,767	107,300	.....	.....	10,085	137	117,335	137	60	197	4
18,500	118,959	91,012	60,920	29,340	5,862	22,837	118	118,959	118	62	180	5
13,664	105,698	160,327	80,864	.....	12,172	12,662	233	105,698	152	61	213	6
.....	5,037	11,240	.....	.....	4,135	902	114	5,037	6	12	18	7
78,533	857,840	\$826,241	630,335	89,044	63,312	75,199	161	70,591	854	469	1,323	

*Edgar County—Fourth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	5,390	\$8,085	.....	.....	5,390	.....	175	5,390	8	4	12	1
.....	160	200	.....	.....	160	.....	60	160	3	2	5	2
.....	5,550	\$8,285	.....	.....	5,550	.....	118	5,550	11	6	17	

*Logan County—Fourth District—1905.*

		OUTPUT OF MINE—					
Number.	NAME OF OPERATOR.	Postoffice address of mine.	Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Latham Coal Co. No. 1.....	Lincoln.....	57,491	82,790	1,724	34,495	51,742
2	Citizens Coal Mining Co. No. 1.....	do.....	32,491	46,155		6,953	21,536
3	Lincoln Coal Co. No. 1.....	do.....		23,460		3,080	7,059
4	Home Coal Co. No. 1.....	Mt. Pulaski.....		7,480	1,247	1,400	670
Totals—4 mines.....			89,982	159,885	2,971	45,848	80,807

Mines reported for 1904, 4.  
Mines in 1905, 4.

*Macon County—Fourth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Mannfacturers & Consumers C. Co.	Decatur.....	25,592	30,006	.....	6,977	8,904
2	Decatur Coal Co., No. 2.....	do.....	6,049	28,196	.....	3,544	3,600
3	Decatur Coal Co., Niantic.....	Niantic.....	2,375	24,483	.....	5,455	3,058
4	Decatur Coal Co., No. 1.....	do.....	4,049	22,196	.....	3,000	2,089
5	Blue Mound Coal Co.*.....	Blue Mound..	437	7,732	.....	1,089	4,500
Totals.....			38,502	112,613	.....	20,065	22,101

\*New mines.  
Mines reported for 1904—4.  
New mines—1.  
Mines in 1905—5.

*Logan County—Fourth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
1,724	229,966	\$176,011	214,697	59,878	9,078	6,191	185	229,966	200	150	350	1
1,400	106,335	101,749	59,878	25,052	12,930	10,475	208	106,335	96	72	168	2
.....	33,519	35,854	17,067	.....	11,000	5,452	160	35,519	40	39	79	3
1,671	12,468	18,776	1,677	.....	9,351	1,440	222	12,468	27	12	39	4
4,795	384,288	\$332,390	293,319	25,052	42,359	23,558	194	384,288	363	273	636	

*Macon County—Fourth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	71,479	\$97,036	13,944	.....	52,351	5,184	226	.....	64	45	109	1
1,551	42,940	65,281	3,500	.....	39,440	.....	300	42,940	60	28	88	2
689	36,060	40,405	18,522	.....	16,844	694	240	36,060	40	16	56	3
1,107	32,391	49,688	10,000	.....	22,391	.....	280	32,391	50	29	79	4
.....	13,758	12,984	5,026	.....	6,423	2,309	300	3,800	16	24	40	5
3,347	196,628	\$265,594	50,992	.....	137,449	8,187	269	115,191	230	142	372	



*McLean County—Fourth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	McLean Co. Coal Co.....	Bloomington.	12,000	87,000	4,000	7,000	5,000
2	Colfax Cooperative Co.....	Colfax.....	13,639	5,946	412	.....	2,425
3	Ill. Coal Mining & Coke Co.....	Chenoa.....	10,710	5,200	.....	1,445	296
Totals .....			36,349	98,146	4,412	8,445	7,721

Mines reported for 1904—4.

Abandoned mines—1.

Mines in 1905—3.

*Shelby County—Fourth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Moweaqua Coal Mg. & Manf. Co..	Moweaqua...	17,366	35,582	15,457	16,145	3,269
2	Century Coal Co. *.....	Tower Hill...	2,394	1,000	.....	.....	.....
Totals .....			19,760	36,582	15,457	16,145	3,269
LOCAL MINES.							
1	John Anglin .....	Shelbyville ...		4,600			
2	B. F. Streeth .....	do .....		4,000			
3	Widick Brothers .....	Findlay .....		2,894			
4	W. W. Turney .....	Shelbyville ...		1,000			
5	W. F. Gallagher .....	Mode .....		800			
6	Brophy Brothers .....	Shelbyville ...		720			
7	M. R. Williams* .....	do .....		640			
8	Charles Michaelis* .....	Fancher .....		350			
9	Hickey & Kingston* .....	Shelbyville ...		220			
10	William Baum* .....	do .....		60			
Totals.....				15,284	.....	.....	.....
Totals—12 mines .....			19,760	51,866	15,457	16,145	3,269

\* New mine.

Mines reported for 1904, 11.

New mines, 5.

Abandoned mines, 4.

Mines in 1905, 12.

*McLean County—Fourth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employés.	Total.	
14,000	129,000	\$186,300	20,000	25,000	70,000	14,000	250	129,000	195	71	266	1
2,492	24,914	29,428	10,052	7,173	5,192	2,492	308	24,914	21	22	43	2
3,445	21,066	28,000	1,020	...	18,668	1,408	200	21,066	12	9	21	3
19,937	175,010	\$243,728	31,072	32,173	93,860	17,900	253	175,010	228	102	330	

*Shelby County—Fourth District—Concluded*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employés.	Total.	
14,715	102,534	\$127,859	68,996	16,778	11,254	5,506	232	82,239	114	67	181	1
.....	3,394	5,134	634	.....	1,937	823	50	3,394	6	14	20	2
14,715	105,928	\$132,993	69,630	16,778	13,191	6,329	232	85,633	120	81	201	
.....	4,600	\$12,650	.....	.....	4,600	.....	300	4,600	20	2	22	1
.....	4,000	11,000	.....	.....	4,000	.....	275	4,000	8	.....	10	2
.....	2,894	7,858	.....	.....	2,894	.....	118	2,894	17	2	19	3
.....	1,000	2,750	.....	.....	1,000	.....	150	1,000	2	1	3	4
.....	800	1,800	.....	.....	800	.....	200	800	4	.....	4	5
.....	720	1,980	.....	.....	720	.....	225	720	10	1	11	6
.....	640	1,760	.....	.....	640	.....	90	640	6	1	7	7
.....	350	744	.....	.....	350	.....	200	350	.....	1	1	8
.....	220	550	.....	.....	220	.....	140	220	3	1	3	9
.....	60	150	.....	.....	60	.....	20	60	3	1	4	10
.....	15,284	\$41,342	.....	.....	15,284	.....	172	15,284	73	11	84	
14,715	121,212	\$174,835	69,630	16,778	28,475	6,329	.....	100,917	193	51	285	

*Vermilion County—Fourth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings
SHIPPING MINES.							
1	Dering Coal Co., No. 1.....	Westville . . .	224,941	55,000		20,000	35,000
2	Kelley Coal Co., No. 4.....	do.....	301,586				
3	Kelley Coal Co., No. 3.....	do.....	273,592				
4	Kelley Coal Co., Pawnee.....	Grape Creek ..	262,694				
5	Kelley Coal Co., No. 2.....	Kelleyville ..	243,002				
6	Dering Coal Co., No. 2.....	Westville.....	162,225	30,000	6,000	2,000	12,000
7	Kelley Coal Co., No. 5.....	Grape Creek ..	209,780				
8	Kelley Coal Co., Himrod.....	Himrod.....	190,777				
9	Electric Coal Co., Electric.....	Danville.....	105,104				
10	Chicago Collieries Co., No. 10.....	Catlin.....	2,231	52,557		90	19,253
11	Consolidated Coal Co., Fairmount.....	Fairmount.....	89	56,467			12,500
12	Economy Coal Co., Economy.....	Danville.....	66,769				
13	E. S. Gray Coal Co., No. 4.....	Oakwood.....	40,000				
14	Oakwood Coal Co., Oakwood.....	do.....	2,000	12,000			6,000
15	Salt & Fork Coal Co., Missionfield.....	Missionfield ..	16,989				
16	John O'Connell Coal C., Blue Bird.....	Grape Creek ..	15,464	1,065			430
17	Atherton Coal Co., No. 1.....	Muncie.....	10,280				
18	Bunting Bros., No. 1.....	Grape Creek ..	2,088	3,765			2,506
19	Dering Coal Co., No. 4*.....	Westville.....	3,000				
20	Dering Coal Co., No. 3*.....	do.....	1,500				
21	J. A. Runnell, Star No. 2*.....	Tilton.....		3,108			
22	George H. Haskins, Brookside.....	Grape Creek ..		989			
Totals .....			2,134,111	214,951	6,000	22,090	37,689

\* New mine.

*Vermilion County—Fourth District—Continued.*

IN-TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	334,941	\$381,627	328,637	.....	2,344	3,960	250	334,941	465	152	617	1
.....	301,586	373,967	297,115	.....	.....	4,471	177	301,586	221	82	313	2
.....	273,592	339,254	280,342	5,383	.....	7,867	178	273,592	230	147	377	3
.....	262,694	325,741	246,494	.....	.....	16,200	203	262,694	227	104	371	4
.....	243,002	301,322	228,502	.....	10,000	4,500	188	243,002	241	124	365	5
.....	212,225	252,179	208,725	.....	.....	8,500	250	212,225	250	104	344	6
.....	209,780	260,127	207,346	.....	.....	2,434	179	209,780	250	71	321	7
.....	190,777	236,564	185,213	.....	.....	5,564	139	148,230	275	146	421	8
.....	105,104	110,359	103,104	.....	.....	2,000	229	105,104	90	51	141	9
31	74,162	74,488	69,606	.....	361	4,195	193	74,162	100	54	154	10
.....	69,056	75,057	63,256	.....	2,700	3,100	191	69,056	70	37	107	11
.....	66,769	70,107	43,469	22,000	.....	1,300	195	66,769	45	18	63	12
.....	40,000	40,000	40,000	.....	.....	.....	275	40,000	30	9	39	13
.....	20,000	20,000	18,000	.....	2,000	.....	225	20,000	25	10	35	14
.....	16,989	18,688	16,989	.....	.....	.....	60	.....	.....	50	50	15
.....	16,959	14,743	16,084	.....	200	675	97	16,959	60	21	81	16
.....	10,280	11,102	5,000	.....	5,000	280	140	10,280	15	5	20	17
.....	8,359	8,822	4,594	.....	3,765	.....	216	8,359	10	5	15	18
.....	3,000	3,720	3,000	.....	.....	.....	100	3,000	15	5	20	19
.....	1,500	1,860	1,500	.....	.....	.....	50	1,500	15	5	20	20
.....	3,108	3,108	3,103	.....	.....	.....	200	3,108	9	1	10	21
.....	989	1,236	210	.....	779	.....	83	989	5	1	6	22
31	2,464,872	\$2,924,071	2,350,294	27,383	27,149	60,046	196	2,405,336	2,648	1,202	3,850	

## Vermilion County—Fourth District—Concluded.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Mauck Brothers, No.1.....	Danville R.R.1		13,862			
2	James Parle, No.1.....	Danville.....		11,500			
3	Reynolds, Hudson & EdwardsNo.1	Tilton.....		11,250			
4	E. S. Gray, No.3.....	Danville.....	19,200				
5	Stansbury & Watkins, No.1.....	do.....		7,920			
6	D. A. Jenkins, No.1.....	do.....		7,437			
7	Webster Brothers, No.1*.....	do.....		7,000			
8	France Brothers, No. 1.....	Fairmount.....		3,410		960	
9	Danville Brick and Tile Co., strip	Danville.....		5,000			
10	Joe Mauck, No. 1.....	Ranville R.R. 1		4,500			
11	Aug. Lind, No. 1*.....	Danville.....		4,480			
12	Miller & Spangler, No. 1.....	do.....		4,125			
13	Aldredge & Wolf, No. 1*.....	do.....		4,000			
14	Cantrell Brothers, No. 1.....	do.....		3,600			
15	Will Winhaus, No. 1*.....	do.....		3,600			
16	Carter Brothers, No. 1.....	do.....		3,500			
17	A. H. Bonnett, No. 1.....	Collison.....		3,400			
18	M. C. Wilkinson, No. 2.....	Danville.....		3,000			
19	Wm. C. Shafer, No. 1.....	do.....		3,000			
20	James Thomas, No. 1.....	So. Danville.....		2,200			
21	L. S. Miller, No. 1.....	Danville R.R. 8		2,000			
22	Rainee Bryant Bryant No. 1.....	Grape Creek.....		2,000			
23	S. C. Bryant, No. 1.....	do.....		2,000			
24	Adolph Roland, No. 1*.....	do.....		1,616			
25	Joe Thompson, No. 1.....	do.....		1,500			
26	Henry Young, No. 1.....	Danville.....		1,407			
27	Joe Bales, No. 1.....	do.....		1,400			
28	Samuel Thomas, No. 1.....	Catlin.....		1,300			
29	Jacob Thompson, No. 1.....	Grape Creek.....		1,200			
30	Hiram Willey, No. 1*.....	Danville.....		1,200			
31	Woodward & Sons, No. 1.....	Fairmount.....		1,200			
32	Downing & Murkenson, No. 1*.....	Danville.....		1,133			
33	Todd Wilson & Co., No. 1*.....	Catlin.....		1,060			
34	Geo. W. Fenwick, No. 1.....	Danville.....		1,000			
35	S. M. Hodge & Son, No. 1.....	do.....		906			
36	Fred Brennerman, No. 1.....	do.....		750			
37	Henry Frederickson, No. 1*.....	do.....		645			
38	Ben Beddow, No. 1*.....	do.....		611			
39	Henry J. Dettman, No. 1.....	do.....		600			
40	Ed. Long & Co., No. 1*.....	do.....		500			
41	W. Ervin & J. E. Mueller, No. 1*.....	Catlin.....		480			
42	R. Crawford & Sons, No. 1*.....	Collison.....		350			
43	John Erickson, No. 1*.....	Danville.....		301			
44	Charles E. Aylar, No. 1*.....	do.....	400				
Totals.....			19,600	131,943	.....	960	.....
Totals—66 mines.....			2,153,711	346,894	6,000	23,050	87,689

\* New mines.

Mines reported for 1904, 63.

New mines, 18.

Abandoned mines, 15.

Mines in 1905, 66.

## Vermilion County—Fourth District—Concluded.

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	13,862	\$20,793	.....	.....	13,862	.....	225	13,862	10	.....	12	1
.....	11,500	17,250	.....	.....	11,500	.....	225	11,500	10	.....	13	2
.....	11,250	9,000	.....	.....	11,250	.....	225	11,250	16	.....	19	3
.....	19,200	19,200	.....	.....	19,200	.....	230	19,200	6	.....	10	4
.....	7,920	8,870	.....	.....	7,920	.....	220	7,950	10	.....	12	5
.....	7,437	11,156	.....	.....	7,437	.....	250	7,437	14	.....	18	6
.....	7,000	10,500	.....	.....	7,000	.....	175	7,000	7	.....	9	7
1,000	5,370	6,200	.....	.....	5,370	.....	200	5,370	8	.....	10	8
.....	5,000	7,500	.....	.....	5,000	.....	150	5,000	2	.....	4	9
.....	4,500	4,500	.....	.....	4,500	.....	180	4,500	8	.....	9	10
.....	4,480	5,018	.....	.....	4,480	.....	250	4,480	4	.....	6	11
.....	4,125	5,156	.....	.....	4,125	.....	165	4,125	3	.....	5	12
.....	4,000	6,000	.....	.....	4,000	.....	120	4,000	3	.....	5	13
.....	3,600	5,400	.....	.....	3,600	.....	180	3,500	7	.....	9	14
.....	3,600	5,400	.....	.....	3,600	.....	250	3,600	5	.....	6	15
.....	3,500	5,250	.....	.....	3,500	.....	180	3,600	10	.....	14	16
.....	3,400	5,100	.....	.....	3,400	.....	100	3,400	13	.....	16	17
.....	3,000	3,750	.....	.....	3,000	.....	250	3,000	4	.....	6	18
.....	3,000	3,375	.....	.....	3,000	.....	180	3,000	3	.....	4	19
.....	2,200	2,200	.....	.....	2,200	.....	120	2,200	3	.....	6	20
.....	2,000	2,500	.....	.....	2,000	.....	190	2,000	3	.....	3	21
.....	2,000	2,500	.....	.....	2,000	.....	140	2,000	4	.....	4	22
.....	2,000	2,500	.....	.....	2,000	.....	180	2,000	6	.....	6	23
.....	1,616	2,020	.....	.....	1,616	.....	160	1,616	3	.....	5	24
.....	1,500	1,875	.....	.....	1,500	.....	150	1,500	5	.....	5	25
.....	1,407	2,111	.....	.....	1,407	.....	150	1,407	2	.....	4	26
.....	1,400	1,750	.....	.....	1,400	.....	200	1,400	5	.....	9	27
.....	1,300	1,625	.....	.....	1,300	.....	150	1,300	2	.....	3	28
.....	1,200	1,500	.....	.....	1,200	.....	180	1,200	3	.....	3	29
.....	1,200	1,800	.....	.....	1,200	.....	180	1,200	8	.....	13	30
.....	1,200	1,800	.....	.....	1,200	.....	125	1,200	3	.....	4	31
.....	1,133	1,983	.....	.....	1,133	.....	150	1,133	2	.....	2	32
.....	1,060	1,653	.....	.....	1,060	.....	110	1,060	3	.....	5	33
.....	1,000	1,250	.....	.....	1,000	.....	150	1,000	2	.....	4	34
.....	906	1,246	.....	.....	906	.....	248	906	3	.....	3	35
.....	750	1,225	.....	.....	750	.....	150	750	3	.....	3	36
.....	645	967	.....	.....	645	.....	200	645	.....	.....	2	37
.....	611	1,069	.....	.....	611	.....	150	611	.....	.....	2	38
.....	600	900	.....	.....	600	.....	25	600	.....	.....	2	39
.....	500	875	.....	.....	500	.....	150	500	.....	.....	2	40
.....	480	600	.....	.....	480	.....	280	480	.....	.....	3	41
.....	350	525	.....	.....	350	.....	50	350	.....	.....	1	42
.....	301	527	.....	.....	301	.....	180	300	.....	.....	1	43
.....	400	600	.....	.....	400	.....	100	400	.....	.....	2	44
1,000	153,503	\$196,919	.....	.....	153,503	.....	173	153,503	222	68	210	.....
1,031	2,618,375	\$3,120,990	2,350,294	27,383	180,652	60,046	.....	2,558,839	2,870	1,270	4,140	.....

*Woodford County—Fourth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Roanoke Coal and Mining Co., 1...	Roanoke.....	13,912	75,862	.....	.....	7,250
2	Minonk Coal Co., 2*.....	Minonk.....	.....	12,860	.....	.....	3,424
Totals.....			13,912	88,722	.....	.....	10,654

\* New mine.

Mines reported for 1904, 1.

New mines, 1.

Mines in 1905, 2.

*Woodford County—Fourth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
5,391	102,395	\$149,419	84,061	5,594	7,349	5,391	263	102,395	211	55	266	1
.....	16,284	21,858	8,240	.....	6,490	1,554	19	16,284	40	32	72	2
5,391	118,679	\$171,277	92,301	5,594	13,893	6,945	228	118,679	251	87	338	



*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Christian .....	7	857,890	306,548	267,715	22,631	80,549	101,914	78,533	\$ 826,241
Logan .....	4	384,288	89,982	159,885	2,971	45,848	80,807	4,795	332,390
Macon .....	5	198,628	38,502	112,613	.....	20,065	22,101	3,347	265,594
McLean .....	3	175,010	36,349	98,146	4,412	8,445	7,721	19,937	243,728
Shelby .....	2	105,928	19,780	36,582	15,457	16,145	3,269	14,715	132,993
Vermillion .....	22	2,464,872	2,134,111	214,951	6,000	22,090	87,689	31	2,924,071
Woodford .....	2	118,679	13,912	88,722	.....	.....	10,654	5,391	171,277
Totals and av'gs..	45	4,308,295	2,639,164	978,614	51,471	193,142	314,155	126,749	\$4,896,294

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Edgar .....	2	5,550	.....	5,550	.....	.....	.....	.....	\$ 8,285
Shelby .....	10	15,284	.....	15,284	.....	.....	.....	.....	41,342
Vermillion .....	44	153,508	19,600	131,943	.....	960	.....	1,000	196,919
Totals and av'gs..	56	174,337	19,600	152,777	.....	960	.....	1,000	\$246,546
Totals—district—all mines.....	101	4,477,632	2,658,764	1,131,391	51,471	194,102	314,155	127,749	\$5,142,840

Whole number of mines reported in 1904, 96.

Number of new mines opened during the year, 26.

Number of mines exhausted or abandoned during the year, 21.

Whole number of mines reported for 1905, 101.

*Fourth District—1905—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					Average number of days in operation.	HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.	By hand.		By machine.	Hand mining.	Machine mining.	
854	469	1,323	630,335	89,044	63,312	75,199	161	710,591	147,299	\$0.5445	\$0.45	
363	273	636	293,319	25,052	42,359	23,558	194	384,288	.....	0.5645	.....	
230	142	372	50,992	.....	137,449	8,187	269	115,191	81,437	0.6319	0.5339	
228	102	330	31,072	32,178	93,860	17,900	253	175,010	.....	0.6032	.....	
120	81	201	69,630	16,778	13,191	6,329	232	85,633	20,295	0.5584	0.49	
2,648	1,202	3,850	2,350,294	27,383	27,149	60,046	196	2,405,336	59,536	0.52	0.318	
251	87	338	92,301	5,594	13,839	6,945	228	118,679	.....	0.79	.....	
4,694	2,356	7,050	3,517,943	196,029	391,159	198,164	206	3,994,728	308,567	\$0.5425	\$0.4493	

*Fourth District—1905—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					Average number of days in operation.	HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.	By hand.		By machine.	Hand mining.	Machine mining.	
11	6	17			5,550		118	5,550		\$0.52		
73	11	84			15,284		172	15,284		1.5912		
222	68	290			153,503		173	153,503		0.5251		
306	85	391			174,337		171	174,337		\$0.6223		
5,000	2,441	7,441	3,517,943	196,029	565,496	198,164	....	4,169,065	308,567			

## FIFTH INSPECTION DISTRICT—1905.

### TWENTY-SECOND ANNUAL REPORT.

Counties—Brown, Calhoun, Green, Jersey, Macoupin, Montgomery, Morgan,  
Sangamon, Scott.

WALTON RUTLEDGE, *Inspector*, Alton.

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with the statute of the State defining the duties of the State inspectors of coal mines, I herewith submit the twenty-second annual coal report of the coal mines in the fifth inspection district for the year ended June 30, 1905.

A tabular statement is herewith given of the statistics in each county, showing the number of mines operated during the year, both shipping and local; the new and abandoned mines; the depth of coal below the surface with the geological number and thickness of the various coal seams; the number of miners and other employés working in the mines and on the surface; the total tonnage of all grades of coal; the average value of coal at the mines, and the aggregate value of the total product in the district, with the casualties in and around the mines, both fatal and non-fatal.

The following summary is given as a recapitulation of the principal facts found in the schedules of the various counties:

Number of mines .....	112
Number of new mines .....	16
Number of abandoned mines .....	6
Number of shipping mines .....	56
Number of local mines .....	56
Total output of tons (2,000) .....	7,135,952
Tons of mine run coal .....	1,717,325
Tons of lump coal .....	3,566,968
Tons of egg coal .....	182,132
Tons of nut coal .....	278,159
Tons of screening (pea) coal .....	1,554,860
Tons of duff coal .....	136,518
Tons loaded on cars for shipment .....	6,527,037
Tons supplied to locomotives .....	192,815
Tons sold to local trade .....	411,135
Tons consumed and wasted at the mines .....	304,965
Tons mined by hand .....	4,561,019
Tons mined by machines .....	2,874,933
Average number of days of operation, shipping mines .....	186
Number of mines using machines .....	15
Number of machines in use .....	213
Number of miners .....	6,646
Number of other employés underground .....	1,857
Number of boys employed underground .....	328
Number of other employés on the surface .....	940
Total number of employés .....	9,869
Average value per ton of lump coal at the mine .....	\$1.198
Average value of mine run at the mine, per ton .....	\$0.973
Average value per ton of egg coal at the mine .....	\$1.184

Average value per ton of nut coal at the mine.....	\$0.824
Average value per ton of screenings at the mine.....	\$0.438
Average value of duff coal at the mine.....	\$1.237
Total valuation of product at the mine.....	\$6,996,345
Number of machines using compressed air.....	173
Number of machines using electricity.....	40
Number of fatal accidents.....	23
Number of non-fatal accidents.....	81
Number of tons mined to each fatal accident.....	323,302
Number of persons employed to each fatal accident.....	442
Ratio of persons killed to each 1,000 persons employed.....	2.3
Number of tons mined to each non-fatal accident.....	91,803
Number of kegs of powder used in blasting coal.....	210,635
Number of kegs for other purposes.....	494
Dynamite used in sinking (pounds).....	5,693

Coal production by counties in the fifth district, with the increase or decrease in each for the years ended June 30, 1904, and June 30, 1905, is shown in the following table:

COUNTIES.	TOTAL OUTPUT IN TONS.		Increase.	Decrease.
	1904.	1905.		
Brown .....	1,583	1,606	23	.....
Calhoun.....	3,110	2,880	.....	230
Greene.....	10,904	14,659	3,775	.....
Jersey.....	3,405	3,141	.....	264
Macoupin.....	2,221,474	2,530,840	309,366	.....
Montgomery .....	494,501	468,198	.....	26,303
Morgan .....	4,300	4,702	402	.....
Sangamon .....	4,516,358	4,395,050	.....	121,308
Scott .....	24,652	14,876	.....	9,776
Totals .....	7,280,287	7,435,952	313,546	157,881

Total net increase, 155,665 tons.

The district shows a net increase of 155,665 tons, which is due to the two new mines of the Superior Coal Co., located at Gillespie, Macoupin county, giving the county an increase of 309,366 tons over last year. Sangamon county shows a decrease of 121,308 tons. Montgomery county shows a loss of 26,303 tons; this is largely due to dull business during the year. Scott county shows a falling off of 9,776 tons; this was due to the destruction by fire of the top works of the Wm. H. Bates mine at Winchester.

#### NEW MINES,

The Consolidated Coal Co. of St. Louis, Mo., has put in operation during the year, a new mine, one and a half miles west of Mount Olive, in Macoupin county; a spur from the Wabash railroad, a distance of 13,200 feet runs to the mine; this mine will be known as No. 15. Coal was reached in both hoisting and air shaft Nov. 2, 1904. The size of both shafts is 8 feet 10 inches by 15 feet 6 inches, and timbered with eight inch curbing. The depth to the top of the coal is 362 feet. The coal seam is seven feet eight inches thick. Entries are driven from the bottom of the main shaft a distance of 400 feet; both shafts are connected and a substantial stairway is constructed in the air shaft for escapement. An eight foot Murphy fan has been installed to furnish ventilation and a wooden tower is being constructed with self dumping cages and shaker screens. Four boilers have been installed, each 72 inches in diameter by 18 feet long, containing 70 four inch tubes, each boiler is rated at 175-horse power. A straight Sullivan air compressor is installed to furnish power for the coal cutting machines; punching machines are to be used. The hoisting engines are 24x36 inches. The engine room, compressor room, tippie

and boiler house are constructed with corrugated iron. A 30,000-gallon water tank, and a coal washer having a capacity of 100 tons per hour have been installed.

A new mine has been put in operation during the year one mile south of the city of Auburn, Sangamon county, on the line of the C. & A. railroad, which will be known as the Black Diamond Coal Co., and owned by Robert Solomon & Sons. The main shaft is 8 feet 6 inches by 14 feet; the air shaft is 8 feet 6 inches by 15 feet 10 inches; a substantial stairway is in the air shaft for escapement; each shaft is 293 feet deep. For ventilation, a 16-foot fan has been erected; the hoisting engines are 24x36 inches, with self-dumping cages and shaking screens. The steam power is generated by four boilers—two plain cylinder and two tubular boilers; the engine, boiler and fan houses are of brick, and said to be fire proof; the tower and tippie houses are built of wood; an electric machine has been installed for cutting the coal by cutters operated by a 19x18in. engine geared direct to a 150 K. W. generator. The mine is now being opened out with a view of having a large output the coming year.

A new mine has been put in operation during the year at Cora, Sangamon county on the line of the C. P. & St. L. R. R., and will be known as the Cora Coal Co. The main shaft is 7x14 feet; the air shaft is not yet completed; good machinery and boiler power has been put in, also dump cages and shaking screens.

A new mine has been put in operation during the year by the Springfield Colliery Co., located at Springfield, Sangamon county. Both the main and escape shafts have been sunk to the coal; the hoisting shaft is 16 feet 6 inches by 10 feet; the air and escapement shaft is 14 feet 6 inches by 7 feet; the escapement chamber is 5x7 feet, with a suitable stairway. The hoisting engine is 24x36 inches; three Erie boilers have been set up, each one is 150 horse power.

The mine is located on the C. & A. R. R., and everything in the way of equipment will be up to date when the mine is completed. The officers of the company are H. C. Adams, president; C. F. Evans, vice president; D. W. Heath, secretary and treasurer. The main office of the company is located at 975 Old Colony building, Chicago.

#### IMPROVEMENTS IN MINES.

At mine No. 6, Staunton, Macoupin county, owned by the Consolidated Coal Co., there has been installed one John O'Brien boiler, 6x18 feet with 70 four-inch tubes rated at 157-horse power. Pipes have been placed for pneumatic signals, but are not yet in operation on account of the air chambers not being received.

At mine No. 7, Staunton, Macoupin county, owned by the Consolidated Coal Co., there has been constructed a new wooden tippie with self-dumping cages and shaker screens. The 8-foot Murphy fan has been removed, and a 22-foot Duncan fan put in its place. Two John O'Brien boilers, 6 by 18 feet, with 70 4-inch tubes have been installed. The main haulage ways have been relaid with 30-pound steel rails, taking the place of the 12-pound rails; this improvement is made with a view of putting in electric haulage. The foundation of the hoisting engine has been renewed; an iron hoisting drum has been put in, replacing one made of wood. Pipes have been placed for pneumatic signals, and will be in operation in a short time.

At mine No. 8, located at Mt. Olive, Macoupin county, owned by the Consolidated Coal Co., a new wooden tippie has been constructed; self-dumping cages and shaker screens have also been introduced. Two John O'Brien boilers, 72 inches by 18 feet have been installed, each boiler having 70 four-inch tubes and rated at 157 horse-power. There has also been installed one 250 K. W. generator of the general electric type. The main east and west entries, also the 14th south on the east side have been laid with 30-pound steel rails. Two 10-ton general electric mine motors have also been put in operation; pneumatic signals have been put in and are now in operation.

At mine No. 10, also located at Mt. Olive, Macoupin county, owned by the Consolidated Coal Co., two John O'Brien boilers have been installed, each 72 inches by 18 feet, with 70 four-inch tubes; they are rated at 157 horse-power; an overcast has been constructed in the west entry into the 6th, 11th and 15th north entries.

The Consolidated Coal Co., at its mine No. 14, Staunton, Macoupin county, has made extensive improvements. A washery has been constructed, the capacity being 100 tons per hour; a Smith gravity box-car loader has been introduced; one John O'Brien boiler has been put in, 72 inches by 18 feet, with 70 four-inch tubes, rated at 157 horse-power. A 22-foot Duncan fan has been constructed; a 100 K. W. generator has been installed for the purpose of lighting the washery, pumping, etc. A stairway in the air shaft has been built to be used as an escapement.

The Woodside Coal Co., Woodside, Sangamon county, has sunk a new shaft one-half mile east of the main shaft and at the head of the working entries, to be used as an air shaft and escapement.

The West End Coal Co., Springfield, Sangamon county, has installed electric haulage.

The Williamsville Coal Co., Selbytown, Sangamon county, has rebuilt the tower at its plant, retimbered both shafts, and put in a new stairway in the escapement shaft; it has also put in dump cages, and shaking screens and built a number of new dwelling houses.

#### CHANGES OF CORPORATE NAMES.

The Illinois Collieries Co., Chicago, (Railway Exchange Bldg.) has bought the Chicago-Virden Coal Co.'s mines Nos. 1, 2 and 3, also the Virden Coal Co.'s shaft, all at Virden, Macoupin county. This company has also bought the Girard Coal Co.'s shaft at Girard, the Jones and Adams Coal Co.'s shaft at Springfield, and the Litchfield Mining and Power Co.'s shaft at Litchfield. These several mines will be known as No. 1 at North Virden, No. 2 at Auburn, No. 3 at Chatam, No. 4 at South Virden, No. 5 at Girard, No. 7 at Litchfield, and No. 8 at Springfield.

J. P. Gorden of Salisbury, Sangamon county, has sold his shaft to W. U. Whitehurst.

#### PROSPECTIVE MINES.

The Shoal Creek Coal Company, main office 734 Rookery building, Chicago, is sinking a new mine at Donnellson, Montgomery county; the shaft is now down 194 feet and coal is expected to be reached at 375 feet; the air shaft is being sunk at the same time as the hoisting shaft. The boiler and engine houses will have brick walls and iron roof trusses; it will be a machine mine, punching machines will be used; everything around the mine will be put in first class condition. Steel tower, dump cages and shaking screens are to be used, and it is said that the shaft will have a capacity of 2,000 tons in eight hours, when properly opened out.

The Clover Leaf Coal Co., Coffeen, Montgomery county, is sinking a new mine at that place on the T. St. L. & W. R. R., one mile west of their present shaft; this mine will be known as No. 2.

The Superior Coal Co., Gillespie, Macoupin county, is sinking a new shaft designated as No. 3, at a point three miles southeast of Gillespie, on the line of its own road, the Macoupin County Railroad. The company expects to reach the coal (Mount Olive seam) about September 1st next. The depth of the shaft will be 335 feet; the size of the main shaft is 9 by 17 feet; the air shaft is 9 by 15 feet.

The equipment will be a hoisting engine 24 by 36 inches, with 7-foot straight drum; a brick boiler and engine house, with steel trusses and slate roof; the machine power house is 42 by 89 feet and built of brick with steel trusses and slate roof; the blacksmith and repair shop is 26 by 60 feet; the building the same as the power house. Two air compressors will be installed, capacity 1,840 cubic feet per minute; the engine to be placed will be of 1,200 horse power, with two tubular boilers 72 inches in diameter by 18 feet long, seventy 4-inch tubes in each boiler. The coal will be mined by machines, operated by compressed air; self-dumping cages and 2½-ton mine cars will be used. A brick stack 125 feet in height has been built, the base is 13 feet 4 inches square and 8 feet 6 inches at the top, the internal diameter is 6 feet and is lined with fire brick. Two 70-foot track scales will be installed.

The company now has twenty-five dwelling houses and a hotel erected, and the Hillsboro Building and Loan Company is building twenty-five more houses. The location of the shaft is very good, as little grading for yard work will be required. The houses for the men and families are located where there is a very fine view of the surrounding country and a good location for a town.

The Peabody Mining Co. has secured a large tract of coal land near Nokomis, Montgomery county, on the lines of the C. C. C. & St. L. and Frisco roads, and is now sinking a shaft; the company expects to reach the coal seam eight and one-half feet thick at 650 feet in depth from the surface.

The Trutter Coal Co., Springfield, Sangamon county, is sinking a new shaft on the line of the B. & O. R. R., four miles west of Springfield. The main shaft is now down to the coal, 174 feet, the coal seam is about six feet thick.

The Mechanicsburg Coal Co., Mechanicsburg, Sangamon county, is sinking a new shaft one and one-half miles from that town on the line of the Illinois Traction Co.'s road.

Several new local mines have been opened out and others have been abandoned during the year.

#### FIRES AT MINES.

Dec. 10, 1904, the tower, locomotive chutes and outbuildings of the Woodside Coal Co., Springfield, were destroyed by fire, the origin of the fire is supposed to have been caused by sparks from passing locomotives. Twenty-eight mules were suffocated. The fire occurred at night; some twelve or fourteen men were working in the mine, but got out safely by the escapeway. Every thing has been rebuilt and the mine commenced work again Jan. 18, 1905.

Dec. 19, 1904, the top works at the Wm. H. Bates mine at Winchester, Scott county, were destroyed by fire. Engine, boiler house, blacksmith shop, wagon scale, shed and locomotive chutes were all destroyed. The fan-house was untouched; all of the mules were saved, being hoisted out of the escape shaft by the men; fortunately there were no men at work in the mine when the fire broke out. This fire was also said to have originated from sparks from passing locomotives. All of the buildings destroyed have been rebuilt and the mine is now at work.

#### EXPLOSION IN MINES.

November 11, 1904, at 1:15 a. m., an explosion occurred in the Peabody Mining Co.'s mine at Sherman, Sangamon county, because of which James McGee and Anton Maruscha lost their lives. I visited the mine the next day, November 12; in company with James Smith, county inspector of Sangamon county. The following is a detailed report of our inspection, accompanied by a map showing where the explosion took place, the location of the various exploded powder kegs which had been ignited by the blast, also other points.

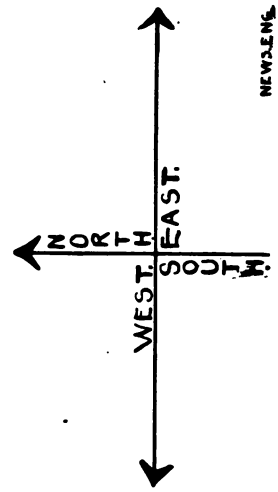
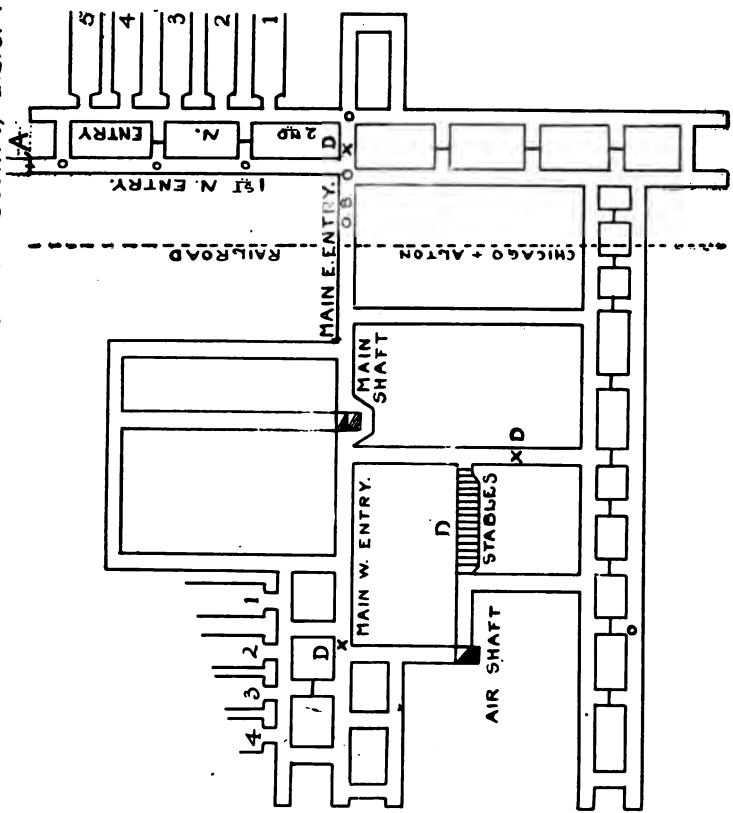
The explosion occurred in the first north entry off the main east entry on the east side of the mine; in this latter entry Anton Maruscha, one of the men killed, was working. The entry had been worked in a distance of 311 feet from the main east entry, the face of the entry was 70 feet from the last open cross-cut, and work had been commenced to drive the next cross-cut through at 60 feet.

Three shots had been prepared and fired in the face; a top hole, and a bottom hole directly underneath, also a top hole at right angles to the other holes in the cross-cut; the two holes in the entry had been drilled in a line with the left rib of the entry, and both had been placed in the solid, with no chance whatever to bring down the coal; there was also a roll in the roof, running diagonally across the face of the entry for four feet back from the face, that still further prevented the shots from dislodging the coal. The bottom hole it was found, had blown off part of the heel of the shot, but left 11 inches of the remaining hole; the top hole had blown its tamping, also about six inches was blown off the mouth of the hole, and twenty-seven remained dead. The hole in the

PLAT SHOWING WHERE EXPLOSION OCCURRED IN THE MINE OF THE PEABODY MINING COMPANY.  
 SHERMAN, SANGAMON COUNTY, ILL. NOV. 17<sup>th</sup> 1904.

REFERENCE.

- A. WHERE WINDY SHOTS WERE FIRED.
- B. MARUSCHA BODY WAS FOUND.
- C. WHERE MCGEE'S BODY WAS FOUND.
- D. WHERE POWDER KEGS WERE FOUND THAT HAD BEEN EX-FLODED.
- D. WHERE DEAD MULES WERE FOUND.
- X. WHERE TEMPORARY DOORS HAD BEEN ERECTED TO CONDUCT THE VENTILATION.





crosscut was 15.5 feet from the two holes on the left rib in the entry, and was a stiff hole blowing the heel but leaving 10.5 inches of the remaining hole dead.

At the last open crosscut, seventy feet from the face, pieces of cut fuse were found, and also small portion of the lid of a powder-box with the staple and padlock attached; the balance of this box could not be identified in the wreckage lying around. At, or opposite, the mouth of the first north entry, about twelve feet from where the body of Maruscha was found, a powder keg was found that had been exploded; also at the mouth of the second north entry on the main east entry, twenty feet from the first north entry on the main east entry, another powder keg was found, also exploded.

The body of Maruscha was found against the south side of the main east entry and about seventeen feet diagonally from the mouth of first north entry, and about 328 feet from the face of the first north entry, and about 275 feet from the hoisting shaft. In the back entry, or second north entry, the face of the entry was fifty-five feet from the open cross-cut; in this entry there are five rooms turned: room 5 is turned twenty-three feet outside of the last open cross cut, and is worked in eighteen feet from the entry. One keg full of powder, and one partly full were found in this entry, the full keg was in the room and the other one on the entry.

The body of James McGee was found in what is known as the west escapement entry, on the west side of the mine, at a distance of 575 feet from the hoisting shaft, also 1,178 feet from the face of the first north entry and 275 feet from the air shaft.

The explosion was of considerable violence, on the east side of the mine the stoppings were blown out and large timbers on the main east entry were knocked down, letting down large masses of rock and strewing debris in all directions, the south cage was jammed into a twisted mass of iron. At the bottom and in the west escapement entry, where McGee was found, the pit cars were piled together; the stairs were blown down in the escape shaft, and the fan house wrecked, as was also a part of the steel sheeting covering the tippie at the hoisting shaft. The stable was set on fire, owing to hay catching fire from the flames and five mules were burned to death. The bodies of the two men were terribly burned, and the head of Anton Maruscha was badly mangled by being crushed against the rib of the entry.

#### CAUSE OF EXPLOSION.

There is no doubt but that these three shots were all fired at the same time, and by fuse, as pieces of fuse had been found at the open cross cut where the powder box had been found. The holes had been very badly placed, and consequently the whole force of the powder was expanded on the atmosphere, producing what is commonly known as windy shots: conditions were further aggravated by one of the shots being at right angles to the other two, the carbonic oxide gases given off by these shots being ignited from the flame of the shots; the flames passing out to the cross-cuts. At the first open cross cut from the face, where the shots were fired, Maruscha's box was standing, in which he kept his powder; and, as this box was blown to pieces, it must have contained a quantity of powder, which exploding, intensified the force of the blast; also the flames following the explosion, set off other powder, still further intensifying the force of the blast, as four kegs were found that unmistakably had been exploded; thus making more intense the force of the explosion, this, together with the force of the blast going against the incoming air, caused it to extend to the west side of the mine, following the path of the least resistance to the escapement or air-shaft, where, at that point, it would have the effect of a huge piston, driving the air up the tube-like air shaft with an enormous pressure and velocity, stripping all obstructions in its path. The flames following the explosion, also passed to the west side of the mine, and going through the stable, setting fire to the hay, and other combustible matter, and burning fatally the five mules. The flames also passed up the west escape entry to where McGee was found, as his body was terribly burned; here also was found a keg of powder that had been exploded. *I do not believe that dust was a factor in this explosion, as I could not find any traces of charred coal dust.*

## FATAL ACCIDENTS.

The following is a detailed statement of the fatal accidents that have taken place in the fifth inspection district during the year ended June 30, 1905:

Aug. 5, 1904, William Sloan, miner, aged 19 years, single, was killed in the Wilmington & Springfield Coal Co.'s mine, Springfield, Sangamon county, by suffocation. He went back on shots previously fired and was overcome by the smoke and gases from the shots.

Aug. 16, 1904, Chas. Gedudis, miner, aged 40 years, married, was killed by falling slate at the working face in the Springfield Coal Mining Co.'s No. 4 mine, Springfield, Sangamon county. He leaves a widow and three children.

Aug. 27, 1904, Thomas Younger, miner, aged 40 years, married, was killed by falling slate at the working face in the Trutter Coal Co.'s mine, Pleasant Plains, Sangamon county. He leaves a widow and two children.

Aug. 30, 1904, F. Creith, miner, aged 22 years, single, was killed by falling top coal at the working face in the Royal Colliery Co.'s mine, Virden, Macoupin county.

Sept. 21, 1904, Chas. Molitris, miner, aged 29 years, married, was killed by falling top coal at the working face in the Victor Coal Co.'s mine, Pawnee, Sangamon county. He leaves a widow and one child.

Sept. 29, 1904, P. Caulfield, roadman, aged 29 years, single, was injured by being caught between mine cars at the Springfield Coal Mining Co.'s No. 4 mine, Springfield, Sangamon county. He died Oct. 5, 1904.

Oct. 9, 1904, P. Caspere, miner, aged 27 years, single, was killed by falling slate at the working face in the mine of the Barclay Coal Mining Co., Barclay, Sangamon county.

Oct. 22, 1904, Michael Delmo, miner, aged 35 years, married, was killed by a premature blast in the Royal Colliery Co.'s mine, Virden, Macoupin county. He leaves a widow and three children.

Oct. 22, 1904, H. H. Berg, driver, aged 24 years, single, was killed in the the Superior Coal Co.'s mine No. 1, Gillespie, Macoupin county, by being caught between mine cars.

Oct. 31, 1904, Carl E. Hedrick, timberman, aged 19 years, single, was killed by falling slate while timbering on the hauling road in the Woodside Coal Co.'s mine, Springfield, Sangamon county.

Nov. 11, 1904, Anton Maruscha, miner, aged 40 years, single, was killed by an explosion caused by badly placed shots at the Peabody Mining Co.'s mine, Sherman, Sangamon county.

Nov. 11, 1904, James McGee, miner, aged 32 years, married, was killed by an explosion at the Peabody Mining Co.'s mine, Sherman, Sangamon county. The explosion was caused by badly placed shots. He leaves a widow.

Nov. 21, 1904, Ed. J. Mooney, machine helper, aged 25 years, single, was killed by falling coal at the working face in the Madison Coal Co.'s mine No. 6, Divernon, Sangamon county.

Nov. 25, 1904, Alvin Maxey, miner, aged 48 years, married, was killed by flying coal from a shot in the Springfield Coöperative Coal Co.'s mine, Springfield, Sangamon county. He leaves a widow.

Dec. 20, 1904, Michael Nehering, miner, aged 43 years, single, was injured by falling slate while working in the Island Grove Coal Co.'s mine, Old Berlin, Sangamon county. He died two days after the accident.

Dec. 30, 1904, Neverest Rhibold, miner, aged 39 years, married, was killed by coal flying from shot in the Springfield Coal Mining Co.'s No. 3 mine, Springfield, Sangamon county. He leaves a widow and four children.

Jan. 25, 1905, Peter Greff, miner, aged 30 years, married, was injured by falling over a prop in an old and abandoned room in the Illinois Collieries Co.'s mine No. 5, Girard, Macoupin county. He died the next day. He leaves a widow and one child.

Feb. 25, 1905, Edward Acres, carpenter, aged 34 years, married, was killed by falling down the shaft of the Illinois Collieries Co.'s No. 1 mine, Virden, Macoupin county. A mine car had been thrown from the dump cage into the weigh pan; a chain was attached to the car to draw it back to the cage; Acres was standing on top of the cage, when the chain broke, causing the cage to rebound, throwing him off and down the shaft. He leaves a widow and two children.

March 24, 1905. Frank Vota, miner, aged 26 years, single, was killed by falling top coal at the working face in the Montgomery Coal Co.'s mine at Paisley, Montgomery company.

April 7, 1905. John A. Forseyth, aged 26 years, married, was injured by an explosion of powder in the Superior Coal Co.'s No. 1 mine at Gillespie, Macoupin county. While in the act of charging a shot, a spark from his own or his partner's lamp fell into the powder can, causing the explosion. He died the next day. Inhaling the fumes of the powder caused his death. He leaves a widow and three children.

April 16, 1905. F. B. Lowery, timberman, aged 33 years, married, was killed by a fall of slate in the Jefferson Coal Co.'s mine, Springfield, Sangamon county. He leaves a widow and two children.

April 26, 1905. John Rink, timberman, aged 45 years, single, was killed by a fall of slate in the Victor Coal Co.'s mine at Pawnee, Sangamon county.

June 8, 1905. James F. Homer, miner, aged 24 years, single, was killed by falling slate in the Madison Coal Co.'s No. 5 mine at Mount Olive, Macoupin county.

Following will be found the regular tables for each county, also the tables for fatal and non-fatal accidents.

Respectfully submitted.

WALTON RUTLEDGE,

*State Inspector of Mines, Fifth District, Alton, Ill.*

*Fatal Casualties, Fifth District, July 1, 1905.*

Date.	NAME.	Age.	Occupation.	Residence. (Town)	Married.	Widow.	Children. Single.	Persons dependent.	Cause of Accident.
1904.									
Aug. 5	Wm. Sloan .....	19	Miner .....	Springfield .....	1	1	3	1	Suffocation from shot
16	Chas. Gedudis .....	40	do .....	do .....	1	1	3	4	Falling slate .....
30	F. Creith .....	22	do .....	Viriden .....	1	1	2	1	Falling coal .....
27	Thos. Younger .....	40	do .....	Pleasant Pl's .....	1	1	2	1	Falling slate .....
Sept. 21	Chas. Molitris .....	29	do .....	Pawnee .....	1	1	1	2	Falling coal .....
29	P. Caulfield .....	29	Roadman .....	Springfield .....	1	1	1	1	Pit car .....
Oct. 22	Mich Delmo .....	35	Miner .....	Viriden .....	1	1	3	4	Premature blast .....
22	H. H. Berg .....	24	Driver .....	Mt. Olive .....	1	1	1	1	Pit car .....
31	Carl E. Hedrick .....	19	Timberman .....	Springfield .....	1	1	1	1	Falling slate .....
Nov. 11	Anton Maruscha .....	40	Miner .....	Sherman .....	1	1	1	1	Exp. blown out shot .....
11	Jas. McGee .....	32	do .....	do .....	1	1	1	1	do .....
21	Ed J. Mooney .....	25	Mach. help'r .....	Divernon .....	1	1	1	1	Falling coal .....
Oct. 9	P. Caspere .....	27	Miner .....	Springfield .....	1	1	1	1	Falling slate .....
Nov. 25	Alvin Maxey .....	48	do .....	do .....	1	1	1	1	Flying coal .....
Dec. 20	Mich Nehering .....	43	do .....	Old Berlin .....	1	1	1	1	Falling slate .....
30	Neverest Rhibold .....	39	do .....	Springfield .....	1	1	4	5	Flying coal .....
1905.									
Jan. 25	Peter Grreff .....	30	do .....	Girard .....	1	1	1	2	Falling over prop .....
Feb. 25	Ed. Acres .....	34	Carpenter .....	Viriden .....	1	1	2	3	Falling down shaft .....
March 24	Frank Vota .....	26	Miner .....	Paisley .....	1	1	1	1	Falling coal .....
Apr. 7	John Forseyth .....	26	do .....	Gillespie .....	1	1	3	4	Powder explosion .....
16	T. B. Lowery .....	33	Timberman .....	Springfield .....	1	1	2	3	Falling slate .....
26	John Rink .....	45	do .....	Pawnee .....	1	1	1	1	do .....
June 8	Jas. T. Homer .....	24	Miner .....	Mt. Olive .....	1	1	1	1	do .....
	Totals .....				11	11	21	32	

*Recapitulation of Fatal Casualties, Fifth District, July 1, 1905.*

RESIDENCE.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Divernon .....	1	Carpenter .....	1	Blown out shot .....	2	Barclay Coal Co. ....	1
Gillespie .....	1	Driver .....	1	Falling coal .....	4	Illinois Collieries Co. ....	2
Girard .....	1	Machine help. ....	1	Fall'g down shaft .....	1	Island Grove Coal Co. ....	1
Mt. Olive .....	2	Miners .....	16	Falling over prop .....	1	Jefferson Coal Co. ....	1
Old Berlin .....	1	Roadman .....	1	Falling slate .....	8	Madison Coal Co. ....	2
Paisley .....	1	Timbermen .....	3	Flying coal .....	2	Mt. Olive Coal Co. ....	1
Pawnee .....	2	do .....	1	Pit cars .....	2	Peabody Coal Co. ....	2
Pleasant Plai's .....	1	do .....	1	Powder explosion .....	1	Royal Coal Co. ....	2
Sherman .....	2	do .....	1	Premature blast .....	1	Springfield Co-op. C. Co. ....	1
Springfield .....	8	do .....	1	Suffocation from .....	1	Springfield C. M. Co. ....	3
Viriden .....	3	do .....	1	shot .....	1	Superior Coal Co. ....	2
.....	.....	.....	.....	.....	.....	Trutter Coal Co. ....	1
.....	.....	.....	.....	.....	.....	Victor Coal Co. ....	2
.....	.....	.....	.....	.....	.....	Wilg'tn & Sp'g'ld C. Co. ....	1
.....	.....	.....	.....	.....	.....	Woodside Coal Co. ....	1
Totals .....	23	.....	23	.....	23	.....	23

## Non-Fatal Casualties—Fifth District—July 1, 1905.

Date.	NAME.	Age.	Residence. (Town.)	Married. Single.	Children.	No persons dependent.	Character of injury and cause of accident.	Time lost— days.
1904.								
July	11 Harry Green.....	27	Gillespie.....	1	1	2	B'dy injured kick'd by mule	110
	26 Mike Mulinski.....	25	Mt. Olive.....	1	1	2	Foot and leg inj'd, pit cars.	70
Aug.	16 John Storman.....	32	Chatham.....	1	1	2	Body injured, pit cars.....	32
	27 Pat Gillmore.....	20	Springfield.....	1	1	2	Arm fractured, pit cars.....	60
Sept.	2 H. Norville.....	30	Riverton.....	1	1	2	B'dy inj'd bet'n roof and car	32
	3 Geo. Kline.....	32	Gillispie.....	1	1	1	Leg broken, falling slate.....	90
	3 Jas. Meiklejohn.....	22	Virden.....	1	1	1	Leg broken, pit cars.....	111
	15 Jac Boston.....	32	Mt. Olive.....	1	1	1	Finger crushed, pit cars.....	31
	26 Kurt Liebacker.....	19	do.....	1	1	1	Leg broken, pit cars.....	92
Oct.	6 Wm. Dacey.....	17	Starnes.....	1	1	1	Arm broken, pit cars.....	36
	8 Anton Loeffler.....	20	Mt. Olive.....	1	1	1	Hip dislocated, falling slate	48
	17 Wm. Alexander.....	30	Virden.....	1	1	2	Foot injured, falliug coal.....	31
	23 Jas. Ford.....	42	Springfeld.....	1	1	2	Foot injured, falling slate.....	30
	26 Chas. Gallagher.....	35	do.....	1	1	1	Body injured, pit car.....	55
Nov.	7 E. Hamilton.....	17	Virden.....	1	1	1	Leg injured, pit car.....	32
	11 Mike Tinko.....	33	do.....	1	1	1	Hand injured, falling prop.....	38
	14 John Nevotney.....	18	Thayer.....	1	1	1	Leg injured, pit car and rib	35
	15 Louis Antoncuc.....	26	Dawson.....	1	1	2	Body injured, falling cage.....	30
	15 Louis Cardonelli.....	30	do.....	1	3	4	Body injured, falling cage.....	90
	15 John Legrand.....	61	do.....	1	1	1	Body injured, falling cage.....	*
	18 Frank Mason.....	20	Hillsboro.....	1	1	1	Toe br'k'n, caught in switch	30
	19 John Urbanski.....	29	Auburn.....	1	3	4	Body burnt, fire damp.....	32
	29 Elmer Clark.....	30	Litchfield.....	1	1	1	Body injured, falling rock.....	*
Dec.	5 J. Keefner.....	25	Springfield.....	1	2	3	Body inj'd, decending cage.....	40
	11 Frank Helemboldt.....	42	Mt. Olive.....	1	4	5	Fing's(3) cut off, fan engine	35
	11 John Loewler.....	53	Staunton.....	1	7	8	Leg broken, falling clod.....	48
	13 Wm. Bermel.....	20	Selbytown.....	1	1	2	Leg broken, pit cars.....	*
	19 Domonick Rebeck.....	40	Pawnee.....	1	2	3	Back injured, falling clod.....	35
	22 Jas. Dill.....	17	Virden.....	1	1	1	Finger cut off, between coal and car.....	40
	24 Frank Lenord.....	20	do.....	1	1	1	Foot injured, pit car.....	92
	24 Thos. Mason.....	22	Auburn.....	1	1	1	Body burnt by powder.....	60
	27 Ed Ramey.....	50	Ridgely.....	1	1	1	Arm brok'r, coal from chute	62
	29 Robt. Warren.....	65	Pl. Plains.....	1	1	1	Leg injured, falling slate.....	30
1905.								
Jan.	9 Frank E. Carmack.....	25	Cantrall.....	1	1	1	Eyes destroyed, preama- ture blast.....	*
	18 John Revis Jun.....	28	Litchfield.....	1	3	4	Hip injured, kick of mule.....	42
	18 Clark James.....	25	Barclay.....	1	1	1	Body injured, pit cars.....	35
	20 Herman Hueller.....	38	Gillespie.....	1	1	2	Body injured, falling coal.....	32
	20 Jas. Morley.....	21	Springfield.....	1	1	1	Hand crushed, pit car.....	45
	21 Wm. Cubanks.....	22	Virden.....	1	1	1	Body crushed, pit car.....	65
	24 Jas. Randolph.....	25	do.....	1	1	1	Hand injured, pit car.....	34
	24 John Jeffrey.....	22	Thayer.....	1	1	1	Foot injured, pit car.....	60
	25 John Herron.....	28	Auburn.....	1	1	2	Hand injured, crow bar.....	40
	31 Martin McHugh.....	50	Ridgely.....	1	2	3	Body injured, falling coal.....	43
Feb.	6 E. Helm.....	19	Staunton.....	1	1	1	Wrist brok'n, pit car and rib	35
	8 Wellington Arnold.....	40	Carlinville.....	1	1	3	Foot injured, step'g on nail	35
	9 John Daley.....	50	Litchfield.....	1	1	1	Body injured, pit cars.....	80
	11 Ed Molony.....	60	Virden.....	1	2	3	Body injured, falling coal.....	*
	13 Owen McGinley.....	45	Divernon.....	1	5	6	Leg broken, two places, car and door.....	*
	14 Wm. Tarbiski.....	20	do.....	1	1	1	Leg broken, horse and car.....	90
	15 Jas. Datti.....	44	Springfield.....	1	4	5	Body injured, prem't'e blast	40
	17 John Elliott.....	33	Thayer.....	1	2	3	Body injured, falling coal.....	90
	17 Ernest Walters.....	25	Virden.....	1	1	2	Arm broken, body injured, falling coal.....	60
	23 Jas. Ford.....	42	Springfield.....	1	1	2	Body injured, car and prop.....	60
	24 Frank Richards.....	20	Girard.....	1	1	1	Hand injured, railroad car.....	37
March	1 Ed Purcell.....	16	Divernon.....	1	1	1	Leg injured, pit cars.....	30
	8 Frank Clark.....	29	Auburn.....	1	1	2	Arm brok'n, kick'd by mule	46
	11 Richard Manuel.....	43	Coffeen.....	1	6	7	Body injured, falling coal.....	67
	11 Mike Chicowski.....	25	Springfield.....	1	1	1	Arms, hands and face burnt, drilling out shot.....	33
	13 Oscar Schmidt.....	24	Mt. Olive.....	1	1	1	Hand injured, fall of coal.....	40
	13 Wm. McCullister, Jr.....	21	Thayer.....	1	1	1	Foot injured, pit car.....	80
	13 R. Bamrough.....	21	Springfield.....	1	1	1	Arm broken, pit car.....	49
	15 Frank Ladule.....	44	do.....	1	6	7	Leg broken, flying coal.....	42
	24 C. Vancil.....	44	Auburn.....	1	1	1	Body injured, falling coal.....	52
	28 Wm. Bates.....	20	Virden.....	1	1	1	Body injured, pit cars.....	54

# COAL IN ILLINOIS.

1305

## Non-Fatal Casualties—Fifth District—Concluded.

DATE.	NAME.	Age.	Residence. (Town)	Married. Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1905	31 Robert Leiser.....	17	Staunton .....	1	.....	.....	Collar bone broken, mule and car.	32
April	3 Eli Brooks.....	42	Thayer.....	1	4	5	Leg inj., pit car, amputated	*
	12 Wm. Doyle.....	30	Coffeen.....	1	1	.....	Hand injured, pit cars	70
	17 Ed Kenner.....	32	Divernon.....	1	1	2	Foot injured, pit car.	54
	22 Jas. Roche.....	19	Bissell.....	1	.....	.....	Body injured, pit cars	32
	26 Chas. Max.....	26	Pawnee.....	1	.....	.....	Arm broken, body bruised, falling clod	*
May	29 Joe Satolit.....	35	Viriden.....	1	.....	.....	Body injured, falling coal	36
	9 John Ross.....	30	Girard.....	1	.....	.....	Collar bone broken, pit car	35
	10 Frank McCormick.....	25	Viriden.....	1	.....	.....	Ribs brok'n, kick'd by mule	32
	13 Harry Clay.....	21	do.....	1	.....	.....	Leg broken, pit car.	*
	22 Joe Robson.....	32	do.....	1	2	3	Leg broken, falling slate	*
June	1 Len Taylor.....	24	Dawson.....	1	.....	.....	Foot injured, pit car.	*
	6 Wm. Hutchinson.....	22	Viriden.....	1	.....	.....	Head injured, coal falling down shaft.	*
	7 Joe Dobinski.....	26	Staunton.....	1	1	2	Body injured, pit cars	*
	9 Peter Bellante.....	28	Keys.....	1	.....	1	Body injured, car and prop.	*
	13 George Wray.....	18	Sherman.....	1	.....	.....	Body injured, railroad cars	*
	27 George W. Park.....	47	Girard.....	1	1	2	Body injured, flying coal.	*
	Totals.....			39	42	72	111	

\* Not recovered July 1, 1905.

Total number of men injured.....	81
Not recovered July 1, 1905.....	16
Number of men recovered July 1, 1905.....	65
Time lost by men recovered—days.....	3,250
Average time lost by men recovered—days.....	50

## Recapitulation of Non-Fatal Casualties—Fifth District—1905.

RESIDENCE.	No.	Occupation.	No.	Cause of Accident.	No.	Colliery.	No.
Auburn .....	5	Cager.....	4	Cage descending.....	1	Auburn & Alton Coal Co	1
Barclay .....	1	Carpenter.....	1	Crowbar.....	1	Barclay Coal Co.....	2
Bissell .....	1	Driver.....	31	Falling cage.....	3	Cantrall Coop. C. Co.....	1
Cantrall .....	1	Greaser.....	2	Falling clod.....	3	Capitol Coop. C. Co.....	1
Carlinville.....	1	Laborer.....	1	Falling coal.....	10	Carlinville Coal Co.....	1
Chatham .....	1	Loader.....	1	Falling coal from chute.....	1	Chicago & Wilm. C. Co.	5
Coffeen .....	2	Mach. helper.....	1	Falling down sh'ft	1	Clear Lake Coal Co.....	1
Dawson .....	4	Mach. runner.....	1	Falling prop.....	1	Clover Leaf Coal Co.....	1
Divernon.....	4	Miner.....	25	Falling rock.....	1	Consolidated Coal Co.....	7
Gillespie.....	3	Roadman.....	1	Falling slate.....	1	Hillsboro Coal Co.....	1
Girard .....	3	Shot firer.....	1	Fan engine.....	5	Illinois Collieries Co.....	24
Hillsboro .....	1	Timberman.....	4	Flying coal.....	2	Jefferson Coal Co.....	1
Keys .....	1	To: man.....	2	Fire damp, gas.....	1	Jones & Adams Coal Co	4
Litchfield.....	3	Trapper.....	3	Kicked by mule.....	1	Madison Coal Co.....	7
Mt. Olive.....	6	Trimmer.....	1	Nail, stepped on.....	4	Peabody Coal Co.....	3
Pawnee .....	2	Watchman.....	1	Pit cars.....	1	Royal Coal Co.....	3
Pleasant Pl'ns	1	Yardman.....	1	Pit car and roof.....	37	Sangamon Coal Co.....	1
Ridgely .....	2			Powder.....	1	Spaulding Coal Co.....	1
Riverton.....	1			Premature blast.....	1	Springfield C. M. Co.....	2
Selbytown.....	1			Railroad car.....	2	Superior Coal Co.....	3
Sherman .....	1			Shot, drilling out	2	Trutter Coal Co.....	1
Springfield.....	10			Switch.....	1	Tuxhorn Coal Co.....	3
Starnes .....	1				1	Victor Coal Co.....	2
Staunton .....	4					Wabash Coal Co.....	4
Thayer .....	5					Williamsville Coal Co.	1
Viriden .....	16						
Totals .....	81		81		81		81

Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Fifth District—1905.

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Arm broken.....	6	3	3	5	239	39.83	7.41
Arm, hand and head injured.....	1	.....	1	.....	60	60.00	1.23
Arm injured.....	1	.....	1	.....	33	33.00	1.23
Back injured.....	1	1	.....	3	35	35.00	1.23
Body injured.....	29	18	11	47	1,167	40.24	35.81
Collar bones broken.....	2	.....	2	.....	67	33.50	2.48
Eyes destroyed.....	1	.....	1	.....	.....	.....	1.23
Finger crushed.....	1	.....	1	.....	31	31.00	1.23
Finger cut off.....	2	1	1	.....	75	37.50	2.48
Foot injured.....	8	4	4	8	382	47.75	9.88
Foot and leg injured.....	1	1	.....	2	70	70.00	1.23
Hand injured.....	7	2	5	4	304	38.00	8.65
Head injured.....	1	.....	1	.....	.....	.....	1.23
Hip dislocated.....	1	.....	1	.....	48	48.00	1.23
Hip injured.....	1	1	.....	.....	42	42.00	1.23
Legs broken.....	10	6	4	27	473	47.30	12.35
Legs injured.....	5	2	3	6	127	25.40	6.17
Ribs broken.....	1	.....	1	.....	32	32.00	1.23
Toe broken.....	1	.....	1	.....	30	30.00	1.23
Wrist broken.....	1	.....	1	.....	35	35.00	1.23
Totals, averages and percentages.....	81	39	42	111	3,250	50.	100.00





*Brown County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Ed. Six*	Mt. Sterling	360				
2	Thos. Lewis	Ripley	324				
3	L. Hedrick	do	280				
4	J. Hedrick*	do	162				
5	J. Howard	Mt. Sterling	142				
6	Geo. Adams	do	138				
	Strip coal		200				
	Totals—6 mines		1,606				

\*New mines.  
 Mines in 1904, 5.  
 New mines, 2.  
 Abandoned mines, 1.  
 Mines in 1906, 6.

*Calhoun County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Thomas Press Brick Co.....	Golden Eagle	2,880	.....	.....	.....	.....
	Total—1 mine.....	.....	2,880	.....	.....	.....	.....

Mines reported for 1904, 1.  
 Mines in 1905, 1.

*Brown County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	360	\$720	.....	.....	360	.....	85	360	.....	.....	.....	1
.....	324	648	.....	.....	324	.....	90	324	.....	.....	.....	1
.....	280	560	.....	.....	280	.....	80	280	.....	.....	.....	1
.....	162	324	.....	.....	162	.....	70	162	.....	.....	.....	1
.....	142	284	.....	.....	142	.....	65	142	.....	.....	.....	1
.....	138	276	.....	.....	138	.....	60	138	.....	.....	.....	1
.....	200	400	.....	.....	200	.....	.....	200	.....	.....	.....	1
.....	1,606	\$3,212	.....	.....	1,606	.....	77	1,606	12	.....	12	7

*Calhoun County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	2,880	\$5,760	.....	.....	.....	2,880	200	.....	8	12	10	1
.....	2,880	\$5,760	.....	.....	.....	2,880	200	.....	8	12	10	1

*Greene County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Ed Griffiths.....	Roodhouse...	3,415				
2	Dill Coal Co.....	do.....	2,880				
3	A. Y. Collins.....	Greenfield.....	2,320				
4	Ed Axley.....	Roodhouse...	1,882				
5	James Little*.....	do.....	1,880				
6	Albert Market*.....	do.....	1,724				
7	Col. Cummings.....	do.....	142				
8	J. Rexrow*.....	do.....	122				
9	Alonz Allen*.....	do.....	102				
10	Wm. Allen*.....	Wrightsville.....	100				
11	M. McCarty*.....	Roodhouse...	92				
Total—11 mines.....			14,659				

\* New mine.  
 Mines reported for 1904, 7.  
 New mines, 6.  
 Abandoned mines, 2.  
 Mines in 1903, 11.

*Jersey County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Cairns & Batt.....	Brighton.....	820				
2	L. Wagenglass.....	do.....	420				
3	E. Harnish.....	do.....	418				
4	Chas. Lyle*.....	do.....	408				
5	Ed Springman.....	do.....	385				
6	Rich. Lepold*.....	do.....	362				
7	L. Hubner.....	do.....	240				
8	M. Fitzsimmons.....	do.....	90				
Total—8 mines.....			3,141				

\* New mine.  
 Mines reported for 1904, 7.  
 New mines, 2.  
 Abandoned mines, 1.  
 Mines in 1905, 8.

*Greene County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	3,415	\$5,976	.....	.....	3,415	.....	220	3,415	7	.....	.....	1
.....	3,880	5,042	.....	.....	3,880	.....	180	3,880	9	.....	.....	2
.....	3,320	4,060	.....	.....	3,320	.....	225	3,320	5	.....	.....	3
.....	1,882	3,292	.....	.....	1,882	.....	200	1,882	4	.....	.....	4
.....	1,880	3,290	.....	.....	1,880	.....	210	1,880	4	.....	.....	5
.....	1,724	3,017	.....	.....	1,724	.....	208	1,724	4	.....	.....	6
.....	142	249	.....	.....	142	.....	90	142	1	.....	.....	7
.....	122	214	.....	.....	122	.....	85	122	1	.....	.....	8
.....	102	179	.....	.....	102	.....	75	102	1	.....	.....	9
.....	100	175	.....	.....	100	.....	68	100	1	.....	.....	10
.....	92	161	.....	.....	92	.....	42	92	1	.....	.....	11
.....	14,659	\$25,655	.....	.....	14,659	.....	146	14,659	38	8	48	

*Jersey County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	820	\$1,435	.....	.....	820	.....	210	820	2	1	.....	.....
.....	420	735	.....	.....	420	.....	180	420	1	1	.....	.....
.....	418	732	.....	.....	418	.....	180	418	1	1	.....	.....
.....	406	711	.....	.....	406	.....	155	406	1	1	.....	.....
.....	385	674	.....	.....	385	.....	140	385	1	1	.....	.....
.....	362	634	.....	.....	362	.....	138	362	1	1	.....	.....
.....	240	420	.....	.....	240	.....	125	240	1	1	.....	.....
.....	90	158	.....	.....	90	.....	80	90	1	.....	.....	.....
.....	3,141	\$5,499	.....	.....	3,141	.....	142	3,141	15	7	22	

*Macoupin County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or Screenings.
SHIPPING MINES.							
1	Illinois Collieries Co. No. 1.....	Viriden.....	3,597	164,033	40,350	48,612	41,899
2	Superior Coal Co. No.1.....	Gillespie.....		230,079			52,632
3	Consolidated Coal Co. No. 6.....	Staunton.....	134,961	55,730			29,135
4	Consolidated Coal Co. No.10.....	Mt. Olive.....	19,356	146,567			44,914
5	Consolidated Coal Co. No. 8.....	do.....	19,950	133,183			51,023
6	Superior Coal Co. No.2.....	Gillespie.....	5,001	159,075			37,051
7	Madison Coal Co. No.5.....	Mt. Olive.....	52,099	85,237		1,005	28,979
8	Consolidated Coal Co. No. 7.....	Staunton.....	14,425	89,704			65,528
9	Royal Colliery.....	Viriden.....	16,347	67,821	8,593		67,802
10	Greenridge Mining Co.....	Greenridge.....	8,364	38,022	395		18,448
11	Illinois Collieries Co. No.5.....	Viriden.....	39,194	52,166	58		32,317
12	Consolidated Coal Co. No.14.....	Staunton.....	74,128	15,629			29,678
13	Carlinville Coal Co.....	Carlinville.....	30,980	15,050		2,050	4,850
14	Consolidated Coal Co.....	Gillespie.....	6,403	20,288			11,237
15	Illinois Collieries Co. No.4.....	Viriden.....	12,227	11,962		586	9,346
16	Consolidated Coal Co.....	Hornby.....	175	21,178			7,186
17	Consolidated Coal Co*No.15.....	Mt. Olive.....	11,040	29			
Totals.....			523,247	1,305,753	49,396	52,253	532,030
LOCAL MINES.							
1	Wm. Neil & Co.....	Bunker Hill.....	5,611				
2	Davis Bros.....	Chesterfield.....	2,426				
3	W. H. A. Hodi.....	do.....	1,600				
4	Fred Luekings.....	Brighton.....	1,522				
5	Bauser & Truesdale.....	Bunker Hill.....	1,500				
6	Fritz T. Jorden.....	do.....	1,080				
7	G. B. Loper.....	Chesterfield.....	983				
8	Jas. Harbaugh.....	do.....	720				
9	Wm. Hickey.....	do.....	482				
10	H. S. Duggen *.....	Scottsville.....	112				
Totals.....			16,036				
Totals—27 mines.....			539,283	1,305,753	49,396	52,253	532,030

\*New mines.

Mines reported for 1904, 26.

New mines, 2.

Abandoned mines, 1.

Mines in 1905, 27.

*Macoupin County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
42,245	340,736	\$346,235	304,156		10,925	25,655	207		283	175	458	1
	282,711	320,892	275,723		660	6,328	247		153	96	249	2
	219,826	197,208	150,860	37,636	11,030	12,300	221		180	81	261	3
	210,837	203,938	196,537			12,300	208		140	71	211	4
	204,161	191,527	189,961		4,150	10,060	208		155	70	225	5
	201,127	227,340	194,644		50	6,433	247		117	78	195	6
5,444	172,764	161,394	141,294	21,387	1,818	8,285	171		119	112	231	7
	169,657	142,353	158,977		150	10,530	190		150	63	213	8
	160,563	136,404	156,563		4,000		200	160,563	137	75	212	9
	140,229	128,427	134,760		3,265	2,204	135	140,229	160	71	221	10
	123,735	119,583	114,276		6,190	3,269	123	123,735	170	79	249	11
	119,435	96,560	114,406			5,080	263		40	88	128	12
3,920	56,850	51,940	38,103	1,619	13,206	3,920	116	56,850	90	39	129	13
	37,928	35,852	20,781	5,737	5,310	6,100	102		50	31	81	14
516	34,637	32,385	23,302	7,821	2,192	1,322	114	34,637	97	82	179	15
	28,539	29,098	22,239		1,200	5,100	128		30	21	51	16
	11,069	9,969	10,259		10	800	25		8	6	14	17
52,125	2,514,804	\$2,431,105	2,256,842	74,200	64,156	119,608	180	516,014	2,069	1,238	3,307	
	5,611	\$9,819			5,611		200		9	5	14	1
	2,426	4,246			2,426		190	2,426	6	1	7	2
	1,600	2,800			1,600		180	1,600	5	1	6	3
	1,522	2,664			1,522		175	1,522	5	1	6	4
	1,500	2,625			1,500		172	1,500	5	2	7	5
	1,080	1,890			1,080		170	1,080	4	1	5	6
	983	1,720			983		160	983	4	1	5	7
	720	1,260			720		155	720	4	1	5	8
	482	844			482		160	482	2	1	3	9
	112	196			112		100	112	1		1	10
	16,036	\$28,064			16,036		166	10,425	45	14	59	
52,125	2,530,840	\$2,459,169	2,256,812	74,200	80,192	119,608	.....	526,439	2,114	737	3,366	

*Montgomery County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Dering Coal Co., No. 25.....	Paisley .....	14,230	95,805	10,384	17,464	23,430
2	Hillsboro Coal Co. ....	Hillsboro .....	25,461	77,662	348	10,755	31,612
3	Clover Leaf Coal Co. ....	Coffeen .....	3,022	56,578	.....	2,188	10,610
4	Illinois Colliery Co., No. 7.....	Litchfield .....	10,593	35,290	6,874	1,049	11,218
5	Kortkamp Coal Co.* .....	Hillsboro .....	12,252	.....	.....	.....	.....
6	Miller Coal Co. ....	Raymond .....	500	3,500	.....	50	750
Totals—6 mines.....			66,058	268,805	17,606	31,506	77,620

\* New mine.  
 Mines in 1904, 5.  
 New mines, 1.  
 Mines in 1906, 6.

*Morgan County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.,	Egg.	Nut.	Pea or screenings
LOCAL MINES.							
1	F. Waggstaffe .....	Murrayville ..	3,220				
2	Jack Stoker .....	Arenzville ....	1,272				
3	Fox Coal Co * .....	Chapin .....	210				
Totals—3 mines.....			4,702				

\* New mine.  
 Mines in 1904, 2.  
 New mines, 1.  
 Mines in 1905, 3.

*Montgomery County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	161,313	\$161,127	153,751	.....	4,722	2,840	198	161,313	200	49	249	1
.....	145,838	139,774	131,880	.....	8,992	4,966	196	.....	125	55	180	2
.....	72,398	76,801	68,245	.....	2,353	1,800	172	72,398	89	40	129	2
6,603	71,597	68,079	44,522	9,556	13,667	3,852	192	71,597	82	72	154	4
.....	12,232	12,232	12,052	.....	200	200	150	12,232	10	6	16	5
.....	4,800	9,462	1,500	.....	2,800	500	200	4,800	12	7	19	6
6,603	468,198	\$470,505	411,950	9,556	32,534	14,158	185	322,360	518	229	747	

*Morgan County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	3,220	\$5,635	.....	.....	3,220	.....	220	3,220	1	1	2	1
.....	1,272	2,862	.....	.....	1,272	.....	183	1,272	3	1	4	2
.....	210	473	.....	.....	210	.....	40	210	1	1	2	3
.....	4,702	\$8,970	.....	.....	4,702	.....	148	4,702	12	3	15	



*Sangamon County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Chicago, Wilm. & Ver. Coal Co.	Thayer	174,370	46,994			159,368
2	Madison Coal Co., No. 6.	Divernon	13,435	210,791	9,866	1,408	104,432
3	Illinois Collieries Co., No. 8.	Viriden	85,980	110,777		13,009	64,447
4	Springfield C. M. Co., No. 5.	Springfield	23,802	141,074		18,001	49,607
5	Springfield C. M. Co., No. 2.	Riverton	27,964	117,383	5,991	29,821	44,305
6	Victor Coal Co.	Pawnee	41,755	104,925		6,974	75,242
7	Capitol Co-op. C. Co.	Springfield		126,250	22,310	14,280	16,700
8	Illinois Collieries Co., No. 2.	Auburn	24,295	90,175		4,247	51,657
9	Springfield C. M. Co., No. 4.	Springfield	55,679	90,833		40	20,088
10	Jefferson Coal Co.	do.	74,000	46,000			26,000
11	Springfield C. M. Co., No. 1.	Riverton	38,120	74,256		5,726	24,300
12	Springfield C. & M. Co., No. 3.	Springfield	90,915	37,147		1,551	9,462
13	Woodside Coal Co.	do.	42,130	62,000		9,850	18,700
14	Sangamon Coal Co.	do.	55,822	51,334		7,196	19,906
15	West End Coal Co.	do.	58,270	45,457		7,576	22,728
16	Spaulding Coal Co., No. 2.	Bissell	21,025	65,295		7,020	25,264
17	Prabody M. Co.	Sherman	60,429	28,300	3,092	1,777	15,737
18	Wabash Coal Co., No. 1.	Dawson	17,158	51,706		16,034	22,146
19	Cantrall Co-op. C. Co.	Cantrall	47,490	32,663		6,661	14,244
20	Citizens Coal M. Co., "A"	Springfield	47,000	29,114	4,797	5,435	14,868
21	Williamsville C. M. Co.	Selbytown	8,238	46,231	3,000	8,000	27,450
22	Auburn & Alton Coal Co.	Auburn	72,033	8,908			8,635
23	Barclay C. & M. Co.	Barclay	18,242	42,111		7,279	20,630
24	Springfield Co-op. Coal Co.	Springfield	20,100	20,000	19,032		14,876
25	Tuxhorn Coal Co.	Keys	33,650	28,175		1,020	11,907
26	Citizens C. M. Co., "B"	Springfield	14,015	32,648		2,656	12,034
27	Chicago-Springfield Coal Co.	do.	18,400	24,342		6,289	10,118
28	Wilmington & Springfield C. Co.	do.	13,815	22,787		4,263	13,888
29	Spaulding Coal Co., No. 1.	Spaulding	7,293	22,737			6,038
30	Black Diamond Coal Co.*	Auburn	22,065	4,324	48	1,315	5,354
31	Illinois Collieries Co., No. 3.	Viriden	670	15,772			6,954
32	Trutter Coal Co.	Pl. Plains	8,280	10,620			3,525
33	Cora Coal Co.*	Andrews	734	1,270		126	425
Totals			1,080,804	1,966,433	115,130	187,554	941,061
LOCAL MINES.							
1	Lincoln Park Coal Mining Co.	Springfield	9,316	17,770		6,846	1,797
2	Island Grove Coal Co.	Berlin		6,380			1,820
3	W. U. Whitehurst.	Salsbury		1,827			522
Totals			9,316	25,977		6,846	4,139
Totals—36 mines.			1,070,120	1,992,410	115,130	194,400	945,200

\* New mines.  
Mines in 1904, 34.  
New mines, 2.  
Mines in 1905, 36.

*Sangamon County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			
Slack or Waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	Number.
	380,732	\$329,584	368,735		1,954	10,043	193		298	118	416	1
1,350	341,082	321,150	328,231		4,210	8,641	197		202	110	312	2
4,255	278,426	255,461	261,153		6,487	10,786	225	278,426	230	124	354	3
6,436	239,920	229,223	230,880		4,680	4,360	217	239,920	170	70	240	4
14,768	236,232	214,993	217,348			18,884	187	236,232	190	95	285	5
	228,896	202,992	216,162	1,936	7,242	3,526	146	228,896	220	61	281	6
16,337	195,877	189,746	104,750	18,252	56,538	16,337	265	195,877	162	67	229	7
3,382	173,756	157,199	166,910		1,853	4,993	211	173,756	211	95	306	8
	166,640	172,744	150,242		14,645	1,753	200	166,640	132	62	194	9
	146,000	139,600	134,000		6,500	5,500	224	146,000	87	30	117	10
1,870	142,278	139,712	127,520	550	5,008	9,200	180	142,278	136	67	203	11
2,134	141,209	140,973	132,826		277	8,106	191	141,209	120	58	178	12
4,320	137,000	132,478	114,560	14,400	3,200	4,810	190	137,000	165	53	218	13
2,062	136,320	131,298	129,969		4,289	2,662	186	136,320	151	46	197	14
	134,031	127,592	78,477	12,111	38,721	4,722	211	134,031	121	46	167	15
	118,604	114,750	113,344		840	4,380	174	118,604	100	31	131	16
	109,335	105,725	105,375		186	3,774	236	109,335	60	54	114	17
	107,044	100,039	101,066		2,613	3,365	169	107,044	95	50	145	18
2,435	103,493	97,988	80,020	19,773	1,265	2,435	2-2	103,493	87	50	137	19
1,824	103,038	98,173	74,028	24,317	2,870	1,823	206	103,038	100	33	133	20
4,000	96,919	85,295	87,049		5,870	4,000	172	96,919	100	47	167	21
	89,576	86,177	80,176		6,600	2,809	156	89,576	100	41	141	22
	88,262	82,486	74,151		8,111	6,000	200	88,262	92	43	135	23
4,392	78,300	73,867	56,300		18,375	3,625	150	78,300	125	33	158	24
2,562	77,314	73,628	71,038		1,714	4,562	225	77,314	81	32	113	25
1,235	62,588	60,307	60,060		1,304	1,234	138	62,588	90	31	121	26
	59,149	56,374	55,562		667	2,920	212	59,149	73	35	108	27
2,352	57,103	50,500	37,865	11,660	3,235	4,315	134	57,103	94	45	139	28
	36,088	37,001	31,885		1,806	2,397	77	36,088	120	37	157	29
127	33,233	30,471	28,503		3,607	1,123	154	33,233	35	26	61	30
	23,396	22,378	19,327		1,523	2,546	139	23,396	77	44	121	31
	22,425	22,434	18,685		2,740	1,000	226	22,425	28	16	44	32
	2,555	2,523	1,958		377	220	114	2,555	7	6	13	33
75,841	4,346,823	\$4,094,735	3,858,245	102,999	219,307	166,272	189	3,625,009	4,059	1,756	5,815	
1,462	37,191	\$45,369			33,729	1,462	200	37,191	35	17	52	1
325	8,525	12,322			8,200	325	180	8,525	8	4	12	2
162	2,511	3,543			2,349	162	140	2,511	4	2	6	3
1,949	48,227	\$61,234			46,278	1,949	173	48,227	47	23	70	
77,790	4,395,050	\$4,125,871	3,858,245	102,999	265,585	168,221	.....	3,673,236	4,106	1,779	5,885	

*Scott County—Fifth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Wm. H. Bates & Co. ....	Winchester ...	6,564				
2	Chas. McElwee .....	do .....	1,544				
3	Wm. Kund .....	Bluffs .....	1,200				
4	Neil Gillis .....	Winchester ..	622				
5	John McGuire .....	Alsey .....	810				
6	Ed Berry .....	Exeter .....	800				
7	Geo. Reyborn .....	Winchester ..	748				
8	P. McGuire .....	Alsey .....	480				
9	Fred Brockhouse .....	Bluffs .....	460				
10	Wm. Middendorf .....	Chapin .....	342				
11	Walter Armitage .....	Exeter .....	320				
12	Ed Ramft .....	Bluffs .....	280				
13	Geo. Sellers .....	Winchester ..	210				
14	J. Meyer .....	Bluffs .....	200				
Totals—14 mines. ....			14,876				

Mines reported for 1904, 15.

Abandoned mines, 1.

Mines in 1905, 14.

*Scott County—Fifth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	6,560	\$13,120	.....	6,060	400	100	120	6,560	24	11	35	1
.....	1,544	3,088	.....	.....	1,544	.....	210	1,544	8	.....	10	2
.....	1,300	2,600	.....	.....	1,300	.....	200	1,300	.....	2	.....	3
.....	922	1,844	.....	.....	922	.....	215	922	.....	.....	.....	4
.....	810	1,620	.....	.....	810	.....	218	810	.....	.....	.....	5
.....	800	1,600	.....	.....	800	.....	200	800	.....	.....	.....	6
.....	748	1,496	.....	.....	748	.....	198	748	.....	.....	.....	7
.....	480	960	.....	.....	480	.....	170	480	.....	.....	.....	8
.....	460	920	.....	.....	460	.....	168	460	.....	.....	.....	9
.....	342	684	.....	.....	342	.....	120	342	.....	.....	.....	10
.....	320	640	.....	.....	320	.....	120	320	.....	.....	.....	11
.....	280	560	.....	.....	280	.....	100	280	.....	.....	.....	12
.....	210	420	.....	.....	210	.....	95	210	.....	.....	.....	13
.....	200	400	.....	.....	200	.....	75	200	.....	.....	.....	14
.....	14,876	\$29,752	.....	6,060	8,716	100	157	14,876	59	13	72	

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Macoupin .....	17	2,514,804	523,247	1,305,753	49,396	52,253	532,030	52,125	\$2,431,105
Montgomery .....	6	468,198	66,038	268,805	17,606	31,506	77,620	6,603	470,505
Sangamon .....	33	4,346,823	1,060,804	1,966,433	115,130	187,554	941,061	75,841	4,004,735
Totals and av.	56	7,329,825	1,650,109	3,540,991	182,132	271,313	1,550,711	134,569	\$6,996,345

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Brown .....	6	1,606	1,606	.....	.....	.....	.....	.....	\$ 3,212
Calhoun .....	1	2,880	2,880	.....	.....	.....	.....	.....	5,760
Greene.....	11	14,659	14,659	.....	.....	.....	.....	.....	25,655
Jersey.....	8	3,141	3,141	.....	.....	.....	.....	.....	5,499
Macoupin .....	10	16,036	16,036	.....	.....	.....	.....	.....	28,064
Morgan.....	3	4,702	4,702	.....	.....	.....	.....	.....	8,970
Sangamon .....	3	48,227	9,316	25,977	.....	6,846	4,139	1,949	61,234
Scott .....	14	14,876	14,876	.....	.....	.....	.....	.....	29,752
Totals and av.	56	106,127	67,216	25,977	.....	6,846	4,139	1,949	\$168,146
Totals, district— all mines.....	112	7,435,952	1,717,325	3,566,968	182,132	278,159	1,554,850	136,518	\$7,164,491

Whole number of mines reported in 1901, 102.  
 Number of new mines opened during the year, 16.  
 Number of mines abandoned during the year, 6.  
 Whole number of mines reported for 1905, 112.

*Fifth District—1905—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					Average number of days in operation.	Tons mined by hand.	Tons mined by machine.	PRICES PAID PER TON FOR—	
Number of miners.	All other employ'cs.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.	Hand mining.				Machine mining.	
2,069	1,238	3,307	2,256,842	74,200	64,156	119,606	180	516,014	1,998,790	\$0.52	\$0.45	
518	229	747	411,950	9,556	32,534	14,158	185	322,360	145,838	0.52491	0.45	
4,059	1,756	5,815	3,858,245	102,999	219,307	166,272	189	3,625,009	721,814	0.52594	0.45	
6,646	3,223	9,869	6,527,037	186,755	315,997	300,036	186	4,463,383	2,866,442	\$0.52518	\$0.45	

*Fifth District—1905—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.					Average number of days in operation.	Tons mined by hand.	Tons mined by machine.	PRICES PAID PER TON FOR—	
Number of miners.	All other employ'cs.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.	Hand mining.				Machine mining.	
12		12			1,606		77	1,606		\$1.00		
8	2	10				2,880	200		2,880		\$0.50	
38	8	46			14,659		146	14,659		1.00		
15	7	22			3,141		142	3,141		1.00		
45	14	59			16,036		166	10,425	5,611	0.875	0.45	
12	3	15			4,702		148	4,702		1.0945		
47	23	70			46,278	1,949	173	48,227		0.527		
59	13	72		6,060	8,716	100	157	14,876		1.00		
236	70	306		6,060	95,138	4,929	147	97,636	8,491	\$0.7576	\$0.467	
6,882	3,293	10,175	6,527,037	192,815	411,135	304,965	....	4,561,019	2,874,933	.....	.....	

## SIXTH INSPECTION DISTRICT—1905.

### TENTH ANNUAL REPORT.

(The Sixth Inspection District was formed in 1895, the first annual report was for the year ended June 30, 1896.)

Counties—Bond, Clinton, Madison, Marion, St. Clair.

JOHN DUNLOP, *Inspector, Centralia.*

HON. DAVID ROSS,

*Secretary, State Bureau of Labor Statistics, Springfield, Ill.*

SIR—In compliance with an act of the General Assembly of this State, defining the duties of the State inspectors of coal mines, and requiring annual reports, I herewith submit the tenth annual report of the sixth inspection district, for the year ended June 30, 1905. The counties of the district producing coal are Bond, Clinton, Madison, Marion and St. Clair.

This report gives tabulated statements by counties of the number of mines operated, with the names of the companies or firms operating the same; the total output of all grades of coal, and the disposition of the same; the aggregate value of the output at the mine; the number of miners and other employes; the tonnage mined by hand, also by cutting machines; the number of machines in use and how operated; the number of kegs of powder used in blasting coal; the number of mines using electric motors for hauling coal; the number of fatal and non-fatal accidents, and the number of widows and children left dependent.

The following is a summary taken from the statistical tables for the fiscal year:

Number of counties in which coal is produced .....	5
Total number of mines .....	127
Number of new mines, shipping .....	12
Number of mines abandoned, shipping .....	4
Number of shipping mines .....	92
Number of local mines .....	35
Number of new mines, local .....	2
Total tonnage of shipping mines .....	8,392,443
Total tonnage of local mines .....	114,486
Total tonnage of all mines .....	8,506,929
Tons loaded on cars for shipping .....	7,505,551
Tons supplied to locomotives .....	291,423
Tons sold to local trade .....	219,696
Tons consumed and wasted at the mine .....	375,773
Aggregate value of total product .....	\$7,164,435
Number of miners in all mines .....	7,157
Number of other employes, including boys underground .....	2,363
Number of employes above ground .....	1,116
Total number of persons employed .....	10,636
Average number of days of active operation, shipping mines .....	187
Total number of mining machines in use .....	393
Total tons cut by machines .....	3,775,953

Total tons produced by hand in all mines.....	4,730,976
Number of fatal accidents.....	25
Number of non-fatal accidents, losing 30 days or more.....	59
Number of wives made widows.....	19
Number of children left fatherless.....	59
Number of tons produced for each fatal accident, shipping mines.....	340,277
Number of tons produced for each non-fatal accident.....	144,185
Number of persons employed to each fatal accident.....	425
Number of persons employed to each non-fatal accident.....	180
Ratio of fatal accidents to 1,000 persons employed.....	2.4

The following table shows the coal production by counties, with increase and decrease in each for the year ended June 30, 1904, and June 30, 1905:

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL, IN TONS.		Increase.	Decrease.
	1904	1905		
St. Clair.....	3,418,469	3,398,032	.....	20,437
Madison.....	3,030,892	2,987,906	.....	42,986
Marion.....	1,083,734	1,086,350	2,616	.....
Clinton.....	925,515	904,826	.....	20,689
Bond.....	176,116	129,815	.....	46,301
Totals.....	8,634,726	8,506,929	2,616	130,313

Total net decrease, 127,697 tons.

During the past year twelve new mines of the shipping class have been opened; most of them are equipped to handle an output of from 1,000 to 2,500 tons per day. Judging from the large decrease in the output, the coal trade does not seem to justify the opening up of these plants. In looking over the report for 1904, and comparing it with the present year, it shows that the earnings of the miner for the year are much less; this is brought about by the increase in the number of new mines, also in bringing in of more miners, which has had a tendency to reduce the number of active working days. There has been a decrease from last year of 21 working days, the number of miners has increased 525, and the total increase of all employes is 971.

The number of fatal accidents for the year shows a decided decrease, being 10 less than reported for 1904. The ratio per thousand of the number of persons killed, shows for 1903, 3.83; for 1904, 3.62, and this year 2.35, a decrease of 1.27 from last year.

#### NEW MINES.

The following description is given of the equipment of the mine of the New Staunton Coal Co., located at Livingston, Madison county: The hoisting shaft is 8½x17 feet, divided into three compartments, two for hoisting and the other for pipes and electric cable; the depth is 287 feet to the top of the coal; the size of the timbers used for timbering the shaft is 8x12 inches. The air shaft is 15x9 feet, the air chamber 10x9, and the escapement 5x9; the timbering is the same as in the main shaft. The hoisting arrangement consists of an engine, two-cylinder, 24x36 inches, furnished by the Danville Foundry & Machine Co., Danville, Ill.; the diameter of the drum is 8 feet; the ropes are 1½ inches crucible steel, furnished by Leschen & Sons Rope Co., of St. Louis, Mo. The cages are of the Bonds patent, self-dumping, made by the Ellison Machinery & Foundry Co., of St. Louis, Mo.; the sheave wheels are 8 feet in diameter. The electric equipment consists of a McEwen engine, 16x16 inches, driving a 100 K. W. Goodman generator. There are four Brownell boilers, 6x18 feet, with 72 4-inch flues, two McDowen pumps, 7x5x10 inches, and one Cochran heater, 2,000 horse power. The tippie is 75 feet in height, from the ground to the sheave wheel, and is built of wood. The



shaker screens are constructed so as to furnish four grades of coal; each track has an 80-foot scale; these scales are placed in a concrete sealed pit, and were furnished by Moser, of St. Louis. All of the coal is dumped into a hopper and weighed in the tippie by automatic scales, also furnished by Moser. The fan providing ventilation in the mine was furnished by the Danville Foundry & Machine Company. It is 20 feet in diameter and 6 feet wide, is driven by direct connection to an engine, the cylinders of which are 12x18 inches. The buildings are all constructed of fire-proof material, excepting the tippie; the engine rooms are built of brick, the boiler rooms, shop, fan house and oil house are constructed of corrugated sheet iron; the powder house is also built of brick. The machine shop, which is very essential at all large mines, is equipped with all the latest machinery, such as lathes, drill press, and pipe machines, and such other machinery necessary for carrying on successfully the work at a large mine.

The Mt. Olive & Staunton Coal Company's mine No. 2, Staunton, Madison county, is described as follows: The hoisting and escapement shafts are both the same size, each being seventeen feet, two inches by eight feet, two inches; the hoisting arrangement consists of an engine having two cylinders 24x36 inches, which were furnished by the Litchfield Machine & Foundry Company, Litchfield, Ill. The drum is eight feet in diameter; the ropes are one and one-fourth inches in diameter; the cages are self-dumping, made by the Duncan Foundry Company, Alton, Illinois.

The electric equipment consists of a 150-K. W. generator, driven and directly connected to a McEwen engine; there are four boilers of the O'Brien type, each 150-horse power fitted with the necessary pumps and heater. The tippie is constructed of steel, having concrete piers for the foundation, it is 65 feet high from the ground to the top of the sheave wheel; it is equipped with a hopper and shaker screens, the screens making four grades of coal, three Howe scales are so placed that all coal is weighed before leaving the mine. The fan is 22 feet in diameter, made by the Duncan Foundry Company, Alton, Ill. The buildings are all built of brick, engine and boiler rooms, blacksmith, carpenter and machine shops, fan house and office; the company has built fifty dwelling houses and a general store.

The new mine of the St. Louis & O'Fallen Coal Company, East St. Louis, St. Clair county, is a remarkably well equipped mine. The main shaft is 9x17 feet in the clear; the depth to the coal is 197 feet; the air shaft is 7x15 feet; the tippie is built of steel. The hoisting engine is 24x26 inches and was made by the Litchfield Machine & Foundry Company, Litchfield, Ill.; the cable used is one and one-half inches in diameter. Self-dumping cages are installed, and mine cars with a capacity of three and one-half tons are used, all made by the Duncan Foundry Company, Alton, Ill. Two engines are directly connected with the shaker screens, with four tracks, thus enabling the loading of four cars at the same time; there are six boilers built in two batteries, with a capacity of 850-horse power. The company has also installed two stage Sullivan air compressors, each having a capacity to operate thirty mining machines.

The foregoing are the largest mines that have been opened and equipped in this district during the year; each one is built with a capacity to handle 2,000 to 3,000 tons of coal per day. My purpose in giving in detail the description of these plants is to impart a general idea of the equipment necessary for coal mines intended for a like capacity. All of the new mines are reported for the year excepting a new mine which has been sunk by the Consolidated Coal Company, three miles south of Collinsville in St. Clair county, to be known as No. 17. It is the intention of the company to equip this mine to handle a large product, and in addition a large washery will be built.

#### CHANGES IN THE NAMES OF COMPANIES.

A great many changes in the names of companies have taken place during the year:

The Dutch Hollow Coal Company, Belleville, has changed its name to that of the Avery Coal & Mining Company; the O'Fallon Coal & Mining Company, O'Fallon, has been purchased by the Silver Creek Coal Company, a new corporation; the Skellet mine, formerly owned by the Skellet Coal Company,

Belleville, is now owned and operated by the Fullerton Coal Company; the Valley Coal & Mining Company, East St. Louis, is now being operated by the Kolb Coal Company of Mascoutah, the Marissa Coal & Mining Co., Marissa, is a new corporation and are now operating what was known as the Zildorph mine, also the White Oak mine at the same place, which is now designated as the Oak Ridge mine; the Madison Coal Company has changed the name of its No. 7 mine at Belleville and are now operating it under the old name, that of the Crown Coal & Iron Company No. 4, which originally opened up this mine.

The mine of the Belleville & O'Fallon Coal Company, Belleville, has been sold to the Humboldt Coal Co., but is being operated under the name of the old company. The principal owner of the old company is now deceased, and I was unable to get from the administrator of the estate a report of the coal produced by the company; the report of the mine in the table only shows the coal mined by the Humboldt Company.

The Richland mine at Belleville, owned by the Consolidated Coal Company, has been leased to Herman Pfuhl; this company has also leased its Gartside mine No. 4, Belleville, to the Johnson Coal Co.

#### MINES ABANDONED DURING THE YEAR.

The Consolidated Coal Co. has abandoned its mine at Trenton, Clinton county, also its mines Schurman and Rose Hill, at Belleville; two mines have been closed during the year, the Ruby mine, operated by William Ratican, at Caseyville, and the Dutch Hill Coal Co.'s mine at New Athens; both of these mines are in St. Clair county.

#### FATAL ACCIDENTS.

The following is a detailed account of the fatal accidents occurring in this district during the year:

July 21, 1904, Alexander McLean, sinker, aged 30 years, married, employed in sinking a shaft for the New Staunton Coal Co., Livingston, Madison county, was killed. McLean was being lowered, with other men employed, to the bottom of the shaft, the engineer lost control of the engine, the bucket falling suddenly to the bottom caused his death; the others were slightly injured. He leaves a widow.

July 25, 1904, George Bohlkamp, miner, aged 36 years, married, employed in Frank Sergeant's mine, near Belleville, St. Clair county, was instantly killed by falling slate. He leaves a widow and two children.

September 8, 1904, Jacob Reed, miner, aged 52 years, married, employed in the Crown Coal Co.'s mine No. 4, Belleville, St. Clair county, while mining off loose coal was instantly killed by falling slate. He leaves a widow and four children.

September 12, 1904, James Schneeberger, miner, aged 38 years, married, employed in Fred Murphy's mine, Belleville, St. Clair county, was instantly killed by falling slate. He leaves a widow and four children.

September 16, 1904, Eugene Kidd, mine examiner, aged 43 years, married, employed in the Mentor mine, operated by Joseph Taylor, O'Fallon, St. Clair county, was making an examination of the mine, before the men commenced work, and was instantly killed by falling clod. He leaves a widow and four children.

September 29, 1904, H. R. Manley, miner, aged 47 years, married, employed in Donk Bros. Coal & Coke Co.'s mine No. 1, Collinsville, Madison county, was instantly killed by falling clod. He leaves a wife and seven children.

October 1, 1904, Andrew Billpauch, machine runner, aged 29 years, married, employed in the Madison Coal Co.'s mine No. 4, Glen Carbon, Madison county, was instantly killed by falling slate. He leaves a widow and one child.

October 1, 1904, Thomas Funderburk, dumper, aged 25 years, married, employed at the Mt. Olive & Staunton Coal Co.'s mine No. 2, Staunton, Madison county, was killed by falling down the shaft. He was engaged in dumping coal at a temporary landing; in going back with the empty car to the cage he went to the wrong side of the shaft, and, as there was no protection, the car went down the shaft, dragging him with it. He leaves a widow.

October 22, 1904, John Krause, miner, aged 57 years, married, employed in the Madison Coal Co.'s mine No. 4, Glen Carbon, Madison county; was killed by a fall of coal knocking down a prop which struck him on the head and body causing his death. He leaves a widow and five children.

November 4, 1904, Charles Williams, machine helper, aged 20 years, single, employed in the DeCamp Coal Co.'s No. 1 mine, Staunton, Madison county, was killed by falling top coal and clod. He was a son of John E. Williams, State Inspector of Mines, for the Fourth district from 1897 to 1901.

December 9, 1904, Henry Quitmeyer, miner, aged 56 years, married, employed in the Breese & Trenton Coal Co.'s mine No. 2, Trenton, Clinton county, was fatally injured by falling clod, and died December 22. He leaves a widow and five children.

December 12, 1904, John Marchutte, miner, aged 56 years, married, employed in the Consolidated Coal Co.'s Heintz Bluff mine, was killed by falling clod. He leaves a widow and four children.

January 18, 1905, Edward Monroe, miner, aged 39 years, married, employed in the Lebanon Coal and Mining Association's mine, Lebanon, St. Clair county, was killed. After firing two shots, which had knocked out some props, he went back into the face to fire another shot, when a mass of soap stone fell on him, causing his death. He leaves a widow and five children.

January 18, 1905, Edward Grunz, miner, aged 40 years, married, employed in the Breese & Trenton Coal Co.'s mine No. 1, Breese, Clinton county, was killed by falling top coal. He leaves a widow and three children.

January 19, 1905, James Liddle, driver, aged 26 years, single, employed in the Consolidated Coal Co.'s mine, Trenton, Clinton county, was killed by a trip of loaded cars running over him.

February 6, 1905, Andy Yacup, miner, aged 29 years, married, employed in the new Starnton Coal Co.'s mine No. 1, Livingston, Madison county, was killed by falling slate. He leaves a widow and three children.

February 6, 1905, William Thomas, machine helper, aged 20 years, single, employed in the Lumaghi Coal Co.'s mine No. 2, Collinsville, Madison county, was killed by falling coal.

February 28, 1905, Tony Palo, miner, aged 29 years, married, employed in the Lumaghi Coal Co.'s mine No. 2, Collinsville, Madison county, was fatally injured by a trip of cars running over him. He died April 14, from the effects of the injury, leaving a widow.

March 1, 1905, Charles Shanual, miner, aged 56 years, married, employed in the St. Louis & O'Fallon Coal Co.'s mine No. 2, East St. Louis, St. Clair county, was killed by falling slate while working down loose coal. He leaves a widow and four children.

March 25, 1905, Joseph Issler, driver, aged 25 years, single, employed in the Crown Coal and Iron Co.'s mine No. 4, Belleville, St. Clair county, was caught between the door and the trip of cars, causing his death.

March 28, 1905, William Weiss, miner, aged 32 years, married, employed in the St. Louis & O'Fallon Coal Co.'s mine No. 1, East St. Louis, St. Clair county, was killed by falling slate. He leaves a widow.

April 4, 1905, Samuel Ogden, miner, aged 35 years, single, employed in Donk Bros. Coal & Coke Co.'s mine No. 1, Collinsville, Madison county, was killed by falling clod.

April 10, 1905, Roy Steele, miner, aged 25 years, married, employed in the Illinois Collieries Co.'s mine, Sorrento, Bond county, was killed by the explosion of a shot. He leaves a widow and one child.

May 19, 1905, John Kutthner, miner, aged 47 years, single, employed in the Superior Coal Co.'s mine No. 1, near Belleville, St. Clair county, was killed by falling slate.

June 28, 1905, Louis Zedio, miner, aged 47 years, married, employed in Donk Bros. Coal & Coke Co.'s mine No. 1, Collinsville, Madison county, was killed by falling clod. He leaves a widow and seven children.

Respectfully submitted,

JOHN DUNLOP,

*State Inspector of Mines, Sixth District, Centralia, Ill.*

*Fatal Casualties—Sixth District—July 1, 1905.*

Date.	NAME.	Age.	Occupation.	Residence. (Town)	Married.	Widow.	Children.	Single.	Persons dependent.	Cause of Accident.
1904.										
July	21 Alex. McLean	30	Sinker	Nw Douglas	1	1			1	Falling bucket.
	25 Geo. Bohlkamp	36	Miner	Belleville	1	1	2		3	Falling slate.
Sept.	8 Jacob Reed	52	do	do	1	1	4		5	Falling slate.
	12 Jas. Schneeberger	38	do	do	1	1	4		5	Falling slate.
	16 Eugene Kidd	43	Examiner	Caseyville	1	1	4		5	Falling clod
	29 H. R. Manley	47	Miner	Collinsville	1	1	7		8	Falling clod
Oct.	1 And. Billpauch	29	do	Glen Carbon	1	1	1		2	Falling slate.
	1 Thos. Funderburk	25	Dumper	Staunton	1	1			1	Falling down shaft.
	22 John Krause	57	Miner	Glen Carbon	1	1	5		6	Falling coal
Nov.	4 Chas. Williams	20	Miner	DeCamp				1		Falling coal and clod
Dec.	9 Hy. Quittmeyer	56	Mach. helper	Trenton	1	1	5		6	Falling clod
	12 John Machutte	56	do	Collinsville	1	1	4		5	Falling clod
1905.										
Jan.	18 Ed. Monroe	39	do	Lebanon	1	1	5		6	Falling slate.
	18 E. Grunz	40	do	Breese	1	1	3		4	Falling coal.
	19 James Liddle	26	Driver	Trenton				1		Pit cars.
Feb.	6 Andy Yacup	29	Miner	Livingstone	1	1	3		4	Falling clod.
	6 Wm. Thomas	20	Mach. runner	Collinsville				1		Falling coal.
	29 Tony Palo	29	Miner	do	1	1			1	Pit cars*
Mar.	1 Chas. Shanual	56	do	Belleville	1	1	4		5	Falling slate.
	25 Jos. Issler	25	Driver	do				1		Pit cars and door
	28 Wm. Weiss	32	Miner	Lenz Sta.	1	1			1	Falling slate.
Apr.	4 Sam Ogden	35	do	Collinsville				1		Falling clod
	10 Roy Steele	25	do	Sorento	1	1	1		2	Blast explosion
May	19 John Kutthner	38	do	Ogles Sta.				1		Falling slate.
June	28 Louis Zedio	47	do	Collinsville	1	1	7		8	Falling clod.
	Totals—25				19	19	59	6	78	

\* Died April 14, 1905.

*Recapitulation of Fatal Casualties—Sixth District—July 1, 1905.*

RESIDENCE.	No.	Occupation.	No.	Nature of Casualty.	No.	Colliery.	No.
Belleville	5	Drivers	2	Blast explosion	1	Breese-Trenton Coal Co	2
Breese	1	Dumper	1	Falling with b'ket	1	Consolidated Coal Co	3
Caseyville	1	Examiner	1	Falling clod	7	Crown Coal Co	1
Collinsville	6	Miners	18	Falling coal	4	DeCamp Coal Co	1
DeCamp	1	Mach. helper	1	Falling down sh'ft	1	Donk Bros. Coal Co	3
Glen Carbon	2	Mach. runner	1	Falling slate	8	Illinois Coal Co	1
Lebanon	1	Sinker	1	Pit cars	3	Lebanon Coal Co	1
Lenz Station	1					Lumaghi Coal Co	2
Livingston	1					Madison Coal Co	2
New Douglas	1					Mt. Olive Coal C	1
Ogles Station	1					Murphy, Fred	1
Sorento	1					New Staunton Coal Co	2
Staunton	1					St. L. & O'Fallon C. Co	2
Trenton	2					Sergant, Frank	1
						Superior Coal Co	1
						Taylor, Joseph	1
Totals	25		25		25		25

## Non-Fatal Casualties—Sixth District—July 1, 1905.

Date.	NAME.	Age.	Residence. (Town.)	Married. Single.	Children.	No persons dependent.	Character of injury and cause of accident.	Time lost— days.
1904.								
July	8 H. P. Mentor	45	Odin	1	3	4	Finger cut off, min'g mach.	30
	11 John Renner	27	Livingstone	1	1	3	Back inj'd, fal'g with bucket	30
	11 Rolla Frittb	30	do	1	1	3	Back inj'd, fal'g with bucket	30
	29 Wm. Dowd	25	O'Fallon	1	1	2	Leg broken, safety catch	60
Aug.	2 H. Brudber	25	Troy	1	1	1	Ha'd and fing'rs inj., pit car	30
	3 A. Bubelick	45	Maryville	1	1	3	Ribs fractured, pit car	40
	5 Jos. Wiedawalt	20	Glen Carbon	1	1	2	Foot injured, pit car	40
	12 Albert Koch	17	De Camp	1	1	1	Arm injured, pit car	40
	12 J. Taylor	20	Troy	1	1	1	Foot and ankle inj., pit car	30
	12 W. W. Kitten	32	Maryville	1	1	3	Ribs fractured, trap door	30
	19 Edward Ward	23	Belleville	1	1	4	Leg broken, falling clod	40
	22 Patrick Burns	34	do	1	1	1	Arm injured, falling slate	30
	23 Jos. Pausnokai	40	Collinsville	1	2	3	Legs broken, fall of slate	100
	24 Howboth Charles	39	do	1	1	1	Ribs injured and internally, falling clod	60
	27 D. Griff	26	Maryville	1	1	1	Body inj. inter'ly, trap door	30
	30 A. Anderson	30	do	1	1	1	Body inj. inter., fal'ng prop	34
Sept.	1 B. Harvey	28	do	1	1	1	Ankle dislocated, tailchain	30
	2 L. Sweeney	46	do	1	2	3	Head injured, falling prop.	30
	4 Wm. Roach	45	Collinsville	1	7	8	Leg broken, falling slate	60
	7 G. Savenska	35	Troy	1	2	3	Leg broken, falling slate	60
	9 E. Sterenipple	24	Staunton	1	1	2	Leg broken, mining mach.	90
	16 V. Labintrohing	37	do	1	4	5	Ankle broken, falling slate	30
	19 S. Lucas	45	Soakville	1	7	8	Feet badly inj., fal'ng slate	60
	2 H. A. Price	69	Marissa	1	4	5	Ribs fractured, injured in- ternally, falling slate	90
Oct.	4 J. Rhodes	32	Edwardsville	1	3	4	Back injured, pit car	90
	21 Chas. Brumfield	32	Centralia	1	3	4	Foot injured, pit car	58
	24 Thos. Clunson	22	Glen Carbon	1	1	1	Eye put out, flying coal	60
	27 H. Stahill	22	Collinsville	1	1	1	Arm fractured, pit car	30
	27 John Bakeman	49	Freeburg	1	4	5	Hip dislocated, fal'ng clod	40
Nov.	10 C. Cunningham	35	Sorento	1	2	3	Body burned, shot explos'n	90
	10 Geo. Cunningham	23	do	1	1	1	Body burned, shot explos'n	90
	11 E. H. Abbot	25	Odin	1	1	1	Leg fractured, falling coal	50
	29 Geo. Langhun	57	Centralia	1	3	4	Head and back inj., fal. rock	59
Dec.	11 Chas. S. Segg	43	do	1	4	5	Body injured, cage falling	31
1905.								
Jan.	30 Rufus Long	28	E. St Louis	1	3	4	Collar bone broken, pit cars	30
	31 Jos. Ladenbecker	21	Belleville	1	1	1	Hip broken, pit cars	90
	31 Elmer Evans	26	Worden	1	1	1	Foot cut off, min. machine	150
	31 Richard Peacock	30	DeCamp	1	1	1	Leg broken, falling clod	60
Feb.	1 Geo. Kaiser	22	Belleville	1	1	1	Leg fractured, fall of slate	40
	4 B. Adda	26	Troy	1	1	1	Back injured, falling slate	*
	4 Euclid Simpson	24	Centralia	1	1	1	Arm broken, pit cars	*
	18 And. Kelly	43	Marissa	1	4	5	Leg broken, falling slate	60
	20 Nick Triver	40	Breese	1	3	4	Body injured, falling clod	30
	22 Augt. Beine	50	New Baden	1	7	2	Foot injured, pit car	30
Mar.	3 Ben Cameron	30	Edwardsville	1	1	1	Foot broken, falling coal	90
	8 Frank Cohup	28	do	1	1	1	Leg broken, falling clod	60
	22 Adam Hottenrothe	66	Belleville	1	2	3	Leg injured, falling coal	30
	25 W. B. Kibler	28	Central City	1	1	1	Knee injured, pit car	30
Apr.	10 I. Lamb	62	Edwardsville	1	1	1	Ribs broken, falling clod	40
	17 John Moore	58	Odin	1	4	5	Hip dislocated, falling coal	30
May	9 A. Wicks	35	Centralia	1	4	5	Body inj., smoke from shots	40
	12 John Moyer	36	do	1	3	4	Leg brok'n, fal'ng off cars	49
	19 J. B. Renfrue	42	Troy	1	5	6	Leg br'kn., pit cars and cage	*
	29 Scott Craue	20	Odin	1	1	1	Leg br'kn, tail chain and car	*
June	31 Frank Sunkpohl	40	Germantown	1	1	2	Back injured, falling slate	60
	6 Geo. Richards	24	Mascoutah	1	1	1	Leg fractured, pit cars	*
	16 I. Hickman	47	Reeb Sta.	1	4	5	Leg broken, falling rock	*
	21 Phil Lippert	20	Millstadt	1	1	1	Ankle fractured, fal'ng clod	*
	23 Geo. Schonkies	17	New Baden	1	1	1	Leg broken, falling slate	*
	Totals—59			39	20	102	135	

\* Not recovered July 1, 1905.

Total number of men injured	59
Not recovered July 1, 1905	8
Number recovered July 1, 1905	51
Time lost by men recovered—days	2,811
Average time lost by men recovered—days	51.20

*Recapitulation of Non-Fatal Casualties, Sixth District, July 1, 1905.*

Residence.	$\frac{\circ}{N}$	Occupation.	$\frac{\circ}{N}$	Cause of Accident.	$\frac{\circ}{N}$	Colliery.	$\frac{\circ}{N}$
Belleville.....	5	Cager.....	1	Blast explosion.....	2	Consolidated Coal Co.....	1
Breese.....	1	Drivers.....	15	Bucket falling.....	2	Crown Coal Co.....	1
Centralia.....	6	Laborer.....	2	Cage falling.....	1	DeCamp Coal Co.....	2
Central City.....	1	Loaders.....	2	Falling clod.....	8	Dunk Bro's. Coal Co.....	15
Collinsville.....	4	Machine h'p.....	2	Falling coal.....	4	Enterprise Coal Co.....	1
DeCamp.....	2	Machine r's.....	2	Falling off car.....	1	Kureka Coal Co.....	1
Donkville.....	1	Miners.....	29	Falling prop.....	2	Germantown Coal Co.....	1
East St. Louis.....	1	Oiler.....	1	Falling rock.....	2	Henrietta Coal Co.....	1
Edwardsville.....	4	Sinker.....	2	Falling slate.....	12	Kerns-Donneiwald Coal	
Freeburg.....	1	Trackmen.....	3	Flying coal.....	1	Co.....	1
Glen Carbon.....	2			Mining machines.....	3	Lake Superior Coal Co.....	2
Germantown.....	1			Pit cars.....	15	Lumaghi Coal Co.....	3
Livingstone.....	2			Powder smoke.....	1	Madison Coal Co.....	3
Marissa.....	2			Safety catch.....	1	Marissa Coal Co.....	1
Maryville.....	6			Tail chain.....	2	Mt. Olive Coal Co.....	2
Mascoutah.....	1			Trap door.....	2	Murren Coal Co.....	4
Millstadt.....	1					New Staunton Coal Co.....	2
New Baden.....	5					Odin Coal Co.....	4
Odin.....	4					Pittenger & Davis.....	7
O'Fallon.....	1					St. Clair Coal Co.....	1
Reeb Station.....	1					St. Louis & O'Fallon	
Sorento.....	2					Coal Co.....	2
Staunton.....	2					Skellet Coal Co.....	1
Troy.....	5					Sorento Coal Co.....	2
Worden.....	1					Surburben Coal Co.....	1
Totals.....	59		59		59		59

*Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages, Sixth District, July 1, 1905.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Per cent of injuries.
					Total days.	Average days.	
Ankle broken.....	1	1	.....	5	30	30.00	1.70
Ankles injured.....	2	.....	2	.....	30	15.00	3.39
Arm broken.....	1	1	.....	1	.....	.....	1.70
Arms injured.....	3	1	2	1	100	33.33	5.08
Backs injured.....	5	3	2	9	210	42.00	8.47
Bodies burned.....	3	2	1	8	220	73.33	5.08
Bodies injured.....	4	2	2	9	125	31.25	6.78
Collar bone broken.....	1	1	.....	4	30	30.00	1.70
Eye put out.....	1	1	.....	1	60	60.00	1.70
Feet injured.....	5	4	1	16	218	43.60	8.47
Finger cut off.....	1	1	.....	4	30	30.00	1.70
Foot broken.....	1	1	.....	1	90	90.00	1.70
Foot cut off.....	1	.....	1	.....	150	150.00	1.70
Hand and fingers injured.....	1	.....	1	.....	30	30.00	1.70
Heads injured.....	2	2	.....	7	89	44.50	3.39
Hip broken.....	1	.....	1	.....	90	90.00	1.70
Hips dislocated.....	2	2	.....	10	70	35.00	3.39
Knee injured.....	1	1	.....	1	30	30.00	1.69
Legs broken.....	13	8	5	35	539	45.31	22.03
Legs broken (both).....	1	1	.....	3	100	100.00	1.69
Legs injured.....	4	3	1	5	120	30.00	6.78
Ribs broken.....	1	1	.....	2	40	40.00	1.69
Ribs fractured.....	3	3	.....	13	150	50.00	5.08
Ribs injured.....	1	.....	1	.....	60	60.00	1.69
Totals, averages and percentages.....	59	39	20	135	2,611	51.10	100.00

*Bond County—Sixth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINE.							
1	Illinois Collieries Co., Sorento.....	Sorento .....	1,720	95,552	.....	168	32,298
	Totals—1 mine.....	.....	1,720	95,552	.....	168	32,298

Mines reported for 1904, 1.  
Mines in 1905, 1.

*Clinton County—Sixth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or Screenings.
SHIPPING MINES.							
1	Muren Coal & Ice Co. No. 2.....	New Baden.....		160,568	16,639	15,381	72,839
2	Breese-Trenton Mining Co. No. 1.....	Breese .....	27,600	143,019		20,072	37,636
3	Trenton Coal Co. No. 1.....	Trenton .....		104,369	10,172	15,492	10,403
4	Consolidated Coal Co., Breese.....	Breese .....	74,806	25,600			15,423
5	Consolidated Coal Co., Trenton.....	Trenton .....	456	45,541			17,463
6	Germantown Coal Co. No. 1.....	Germantown ..	26,430	9,870	1,860	1,910	3,560
7	Breese-Trenton Coal Co. No. 3*.....	Breese.....		7,295			4,938
Totals—7 mines.....			129,292	496,262	28,671	52,855	162,262

\* New mine.  
Mines in 1904, 6.  
New mines, 1.  
Mines in 1905, 7.

*Bond County—Sixth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or Waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
77	129,815	\$130,847	122,274	.....	3,321	4,220	145	129,815	140	71	211	1
77	129,815	\$130,847	122,274	.....	3,321	4,220	145	129,815	140	71	211	

*Clinton County—Sixth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
3,917	269,344	\$187,736	255,969	.....	2,684	10,691	245	.....	148	126	274	1
22,585	250,912	239,945	197,344	47,834	4,642	1,092	233	250,912	185	85	270	2
1,526	141,962	193,303	128,122	.....	8,840	5,000	224	.....	140	95	235	3
.....	115,829	93,812	109,329	.....	1,700	4,800	118	115,829	125	44	169	4
.....	63,460	73,179	52,260	.....	2,500	8,700	169	.....	60	67	127	5
3,251	46,881	33,801	39,630	.....	4,000	3,251	200	46,881	60	23	83	6
4,205	16,438	11,835	13,618	.....	1,020	1,800	120	16,438	20	24	44	7
35,484	904,826	\$833,611	796,272	47,834	25,386	35,334	194	430,060	738	464	1,202	



*Madison County—Sixth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Donk Bros. Coal & C. Co. No. 2.....	Collinsville.....	51,832	172,350	13,619		91,334
2	Mt. Olive & Staunton Coal C. No. 1	Staunton.....	32,820	192,299	47,040	29,299	16,101
3	Donk Bros. Coal & C. Co. No. 1....	Collinsville.....	21,816	135,995	38,393		118,867
4	Donk Bros. Coal & C. Co. No. 3....	Troy.....	77,170	114,967	16,078	5,162	77,416
5	Lumaghi Coal Co. No. 2.....	Collinsville.....	13,488	136,757	24,653	3,036	40,143
6	Madison Coal Co. No. 4.....	Glen Carbon.....	2,780	151,822		11,615	37,355
7	Madison Coal Co. No. 2.....	do.....	1,312	155,084		13,239	25,624
8	Consolidated Coal Co., Abbey No. 3	Collinsville.....	39,912	70,249			34,366
9	Consolidated Coal Co., Heintz Bluff	do.....	44,880	70,507			27,910
10	Mt. Olive & Staunton C. C. No. 2*	Staunton.....	98,056	25,320	10,841	5,789	73
11	Kerns-Donniewald C. Co. No. 1....	Worden.....	40,773	67,935		9,060	18,122
12	Edwardsville Coal Co. No. 3.....	Edwardsville.....	11,331	70,471			30,046
13	DeCamp M. Co. No. 1.....	Staunton.....	51,288	25,051	432	5,600	18,560
14	Lumaghi Coal Co. No. 3.....	Collinsville.....	26,897	37,018	13,019	5,579	13,264
15	Henrietta Coal Co. No. 1.....	Edwardsville.....		33,896		6,717	11,858
16	New Staunton Coal Co. No. 1*	Staunton.....	20,637	9,828		4,074	616
17	Consolidated Coal Co., Troy.....	Troy.....	1,663	19,159			11,440
18	Interstate C. & M. Co., McDonald..	Worden.....	486	11,329		1,865	3,745
19	Consolidated Coal Co., No. 17*.....	Collinsville.....	4,607				
Totals .....			541,748	1500,057	164,075	101,035	576,860
LOCAL MINES.							
1	Home Trade Coal Co.....	Edwardsville.....	17,478				
2	Abbey Coal Co.....	Collinsville.....	8,460				
3	Bullock Bros.....	do.....	6,759				
4	Perry Meyer.....	Bethalto.....	4,500				
5	Geo. Cable.....	Moro.....	2,250				
6	Jas. Hill.....	Fosterburg.....	2,160				
7	Frank Eccles.....	North Alton.....	1,500				
8	Theo. Schuller.....	Prairie town.....	1,367				
9	Peter Sydall.....	North Alton.....	1,233				
10	H. L. Hauke.....	Fosterburg.....	1,200				
11	Sam McDonald.....	Moro.....	1,200				
12	Kamp & Miller.....	North Alton.....	1,050				
13	W. F. Backe.....	Carpenter.....	1,000				
14	Herman & Houseman.....	Fosterburg.....	600				
15	Wm. Richardson.....	Moro.....	450				
16	Hy. Golike.....	Fosterburg.....	400				
17	John Spencer.....	Bethalto.....	250				
18	Oscar Meyers.....	Godfrey.....	190				
19	Fred Fredericks.....	Upper Alton.....	140				
Totals .....			52,157				
Totals—38 mines.....			593,905	1500,057	164,075	101,035	576,860

\* New mines.  
 Mines in 1904, 35.  
 New mines, 34.  
 Mines in 1905, 38.

*Madison County—Sixth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
.....	329,135	\$277,833	320,097	.....	1,253	7,785	204	.....	229	162	391	1
5,812	323,371	282,145	308,934	5,952	2,674	5,811	209	.....	180	130	310	2
.....	315,091	249,068	302,001	2,464	1,156	9,470	220	215,091	360	150	510	3
.....	290,793	288,044	279,609	.....	4,508	6,676	202	290,793	248	128	376	4
7,200	225,277	183,029	218,077	.....	.....	7,200	216	.....	216	115	331	5
11,704	215,276	192,579	203,269	2,350	.....	9,657	157	32,376	157	111	268	6
17,581	212,840	191,290	180,897	.....	3,977	17,966	168	17,635	168	68	236	7
.....	144,527	114,484	106,360	20,367	7,500	10,300	266	.....	75	66	141	8
.....	143,297	117,028	133,437	.....	2,410	7,430	246	.....	75	51	126	9
2,594	142,673	116,943	139,439	.....	641	2,593	229	.....	60	48	108	10
.....	135,910	136,589	127,133	.....	5,127	3,650	181	.....	130	57	187	11
.....	114,966	96,730	102,082	.....	6,445	6,489	227	20,457	112	64	176	12
41	100,972	87,280	81,988	.....	383	18,601	230	122	90	28	118	13
2,864	98,641	79,458	94,823	.....	934	2,864	210	.....	86	26	112	14
.....	52,471	45,181	37,211	.....	11,641	3,619	157	46,391	35	20	55	15
.....	35,155	30,897	32,127	19	619	2,390	184	35,155	50	49	99	16
.....	32,262	31,043	27,612	.....	1,780	2,870	153	32,262	20	44	64	17
1,060	18,485	15,440	17,425	.....	.....	1,060	106	.....	36	14	50	18
.....	4,907	3,916	4,297	10	.....	300	10	4,607	12	8	20	19
51,974	2,935,749	\$2,538,977	2,726,788	31,162	51,068	126,731	198	794,889	2,339	1,339	3,678	
.....	17,478	\$30,587	.....	.....	16,999	479	290	17,478	16	4	20	1
.....	8,460	14,803	.....	.....	7,535	925	300	8,460	14	4	18	2
.....	6,759	11,828	.....	.....	6,091	668	294	6,759	9	3	12	3
.....	4,500	6,300	.....	.....	4,500	.....	218	4,500	6	3	8	4
.....	2,250	3,375	.....	.....	2,250	.....	225	2,250	5	2	7	5
.....	2,160	3,240	.....	.....	2,160	.....	180	2,160	4	1	5	6
.....	1,500	3,000	.....	.....	1,500	.....	150	1,500	5	2	7	7
.....	1,367	2,051	.....	.....	967	400	150	1,367	4	1	5	8
.....	1,233	2,158	.....	.....	1,233	.....	180	1,233	5	2	7	9
.....	1,200	1,800	.....	.....	1,200	.....	150	1,200	5	2	7	10
.....	1,200	1,800	.....	.....	1,200	.....	167	1,200	5	1	6	11
.....	1,050	1,575	.....	.....	1,050	.....	200	1,050	4	1	5	12
.....	1,000	1,500	.....	.....	1,000	.....	150	1,000	3	1	4	13
.....	600	900	.....	.....	600	.....	160	600	4	2	6	14
.....	450	675	.....	.....	450	.....	100	450	2	1	3	15
.....	400	600	.....	.....	400	.....	125	400	4	1	5	16
.....	250	375	.....	.....	250	.....	130	250	4	1	5	17
.....	160	240	.....	.....	160	.....	100	160	3	1	4	18
.....	140	210	.....	.....	140	.....	70	140	2	1	3	19
.....	52,157	\$87,019	.....	.....	49,685	2,472	176	52,157	104	33	137	
51,974	2,987,906	\$2,625,996	2,726,788	31,162	100,753	129,203	.....	847,046	2,443	1,372	3,815	

*Marion County—Sixth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Pittenger & Davis Mfg. & M. F. Co. No. 3 and 4.....	Centralia.....	94,340	190,502	6,685	33,270	70,946
2	Centralia Min. & Mfg. Co. No. 2.....	Centralia.....	33,721	93,679	29,598	23,703	41,044
3	Odin Coal Co. No. 1.....	Odin.....	106	126,946		32,361	7,482
4	Sandoval Coal & M. Co. No. 1.....	Sandoval.....	3,690	94,828		25,288	25,288
5	Sandoval Coal & M. Co. No. 2*.....	Salem.....		16,285		7,345	2,180
6	Kinmundy Coal Co. No. 1.....	Kinmundy.....	1,370	5,943			3,105
7	Salem Coal Co. No. 1.....	Salem.....	5,173				
Totals—7 mines.			138,400	528,183	36,283	121,967	150,035

\*New mine.

Mines in 1904, 6.

New mine, 1.

Mines in 1905, 7.

*Marion County—Sixth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
44,400	440,143	\$374,270	282,190	106,192	23,161	28,600	234	440,143	319	174	493	1
32,513	254,248	211,116	155,357	63,257	22,391	13,243	226	254,248	181	127	308	2
21,926	188,821	171,477	177,063	.....	4,176	7,582	296	.....	148	77	225	3
12,643	161,737	143,851	153,012	.....	2,750	5,975	187	161,737	193	70	263	4
.....	25,810	25,327	20,483	.....	.....	4,073	123	8,043	17	13	30	5
.....	10,418	9,382	6,895	.....	2,100	1,423	100	10,418	21	19	40	6
.....	5,173	6,311	1,254	.....	3,928	1,245	100	5,173	7	5	12	7
111,482	1,086,350	\$941,714	796,254	169,449	58,506	62,141	172	879,762	886	485	1,371	

*St. Clair County—Sixth District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	St. L. & O'Fal. Coal Co. No. 1	E. St. Louis	195,600	158,708			35,000
2	Muren Coal & Ice Co. No. 1.	Belleville	81,779	40,532	2,595	14,358	20,680
3	Superior Coal & Min. Co. No. 1	do	8,843	113,272			32,997
4	Royal Coal & Min. Co. No. 1	do	74,620	58,730			16,200
5	Jos. Taylor Coal Co., Ridge P.	O'Fallon		92,000		2,300	39,226
6	Jos. Taylor Coal Co., Taylor.	do	77,980	33,200			16,284
7	Walnut Hill Coal Co., Avery	Belleville		98,962			30,836
8	Crown Coal & Iron Co. No. 4.	do	3,772	73,658		182	35,351
9	Glendale Coal & Min. Co. No. 1	do		66,003		12,960	
10	Borders Coal Co. No. 1.	Marissa	6,480	53,080		8,980	5,710
11	Avery Coal & Min. Co., Oakland	Belleville	272	55,991	1,216	1,050	14,147
12	Kolb Coal Co. No. 1.	Mascoutah.		63,684		2,006	10,870
13	Eureka Coal Co. No. 1.	Marissa	10,629	45,978	1,586	10,310	1,315
14	Oak Hill Coal Co. No. 1.	Belleville		54,710		11,207	2,696
15	Marissa Coal & Min. Co.	Marissa	2,490	50,434		10,746	2,639
16	Summit Coal Co. No. 1.	Belleville	10,502	42,557			14,100
17	Consolidated Coal Co., Gn. Mt.	do	11,447	46,548			7,889
18	Valley Coal & Min. Co. Valley	Mascoutah		41,600		7,000	13,800
19	Joseph Taylor, St. Ellen	O'Fallon		39,800			14,787
20	Mo. & Ill. Coal Co., Rentchler	Belleville	44,667	9,877		850	516
21	Johnson Coal Co., O. K.	Marissa		42,726			3,551
22	Kolb Coal Co., Vinegar Hill	Mascoutah		40,691			13,560
23	Hippard Coal Co. No. 1.	Belleville	978	29,770			18,975
24	Tirre Coal & Min. Co. No. 1.	Lenzburg		33,920		3,389	10,402
25	Avery Coal & Min. Co., Randle	Freeburg	13,260	27,519		989	7,828
26	Hippard C. Co., Walnut Valley	Belleville		19,242	17,829		8,548
27	Suburban Coal Co., Suburban	do	24,596	14,319		1,068	3,151
28	Pittsburg Min. Co.	do		30,625			13,125
29	Lenz Coal & Min. Co. No. 2.	do	2,800	13,773	7,258	6,312	11,460
30	Sunlight Coal Co.	Freeburg		31,554			10,518
31	Mo. & Ill. Coal Co., Wilderman	Belleville	1,196	25,613		4,689	4,856
32	Fullerton Coal Co., Skellet	do		27,600		5,000	2,100
33	Marissa C. & M. Co., Oak Ridge	Marissa	2,182	23,441		3,628	2,781
34	Lebanon C. & M. Ass'n Bement	Lebanon		20,424	3,404	3,404	5,106
35	Lake Superior Coal Co., Branch	Belleville		23,385			10,021
36	Highland Coal Co. No. 1.	do		25,231			2,074
37	Mo. & Ill. Coal Co., St. Clair	do	18,203	7,635			2,321
38	Borders Coal Co. No. 2*	Marissa	2,680	11,600	5,650	2,307	5,100
39	O'Fallon Coal & M. Co., Darrow	O'Fallon	494	16,949			10,572
40	Consolidated Coal Co., Gartside	Belleville	2,868	21,416			3,521
41	Enterprise Min. Co., Rentchler	Rentchler	8,862	14,180			3,545
42	Chas. Hortmann, Belleville	Belleville		19,005			7,497
43	Herman Pfuhl, Richland	do	19,446	4,740			910
44	Breese-Trenton M. Co., Trent'n*	Trenton		13,627		3,274	6,472
45	Glendale Coal & Min. Co. No. 2.	Belleville		18,650			1,543
46	Little Oak Coal Co.*	do	1,346	15,215		2,397	2,616
47	Consol. Coal Co., Schurman	do	4,419	11,507			4,455
48	Avery Coal & M. Co., Advance	Marissa	1,452	14,986			2,221
49	Lebanon C. & M. Ass'n Carbon	O'Fallon	8,225	6,963			299
50	Fred Murphy, Belleville	Belleville	18,000				
51	St. Louis & O'Fallon No. 2*.	E. St. Louis	16,976				
52	Humboldt Coal & Min. Co.	Belleville		11,071			2,705
53	Beatty Coal Co., Shiloh V.	Mascoutah.		9,915		1,135	
54	T. M. Meek Coal Co., Meek*	Marissa	6,960	500			200
55	Belleville & O'Fallon C. M. Co.	Belleville		4,107		494	1,534
56	Prairie Coal Co.*	do	5,004				
57	Lenz Coal & Min. Co. No. 1.	do		3,025			1,225
58	Kolb Coal Co., Fairbanks*	Mascoutah.	3,600				
Totals			692,628	1,874,248	39,538	123,069	499,832

## St. Clair County—Sixth District—Continued.

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	Number.
.....	389,308	\$315,908	382,708	3,600	.....	3,000	200	389,308	240	78	318	1
.....	159,944	112,135	139,284	16,748	2,342	1,580	195	159,944	120	78	198	2
.....	158,116	142,809	154,116	.....	.....	4,000	200	.....	90	37	127	3
.....	149,550	126,896	141,250	.....	.....	8,300	150	14,870	127	23	150	4
5,670	139,196	93,872	133,026	.....	1,500	4,600	247	139,196	91	35	126	5
3,900	131,364	90,097	124,964	.....	1,500	4,900	248	131,364	81	29	110	6
.....	129,798	95,233	123,380	.....	.....	6,408	200	.....	60	38	98	7
407	113,370	96,955	108,063	2,915	.....	210	2,182	113,370	56	33	89	8
4,646	83,809	73,131	74,850	.....	4,013	4,646	186	.....	68	27	95	9
8,050	82,300	61,078	73,535	.....	5,540	1,225	186	82,300	65	18	83	10
6,042	78,718	57,966	72,942	.....	1,216	4,560	210	.....	50	28	78	11
1,500	78,060	57,852	69,079	.....	7,481	1,500	150	78,060	36	24	120	12
4,431	74,249	53,261	71,249	.....	1,586	1,414	200	74,249	60	15	75	13
2,947	71,560	55,382	68,613	.....	547	2,400	227	.....	33	24	57	14
3,472	69,778	58,458	67,519	.....	899	1,560	180	69,778	50	24	74	15
.....	67,159	51,113	66,209	.....	.....	950	212	67,159	40	12	52	16
.....	65,884	51,879	60,114	.....	470	5,300	222	.....	30	17	47	17
3,000	65,400	42,320	62,400	.....	.....	3,000	175	60,150	56	13	69	18
10,580	65,167	41,963	52,212	775	600	11,560	166	65,167	52	18	70	19
1,851	57,761	43,386	55,760	.....	150	1,851	116	57,761	65	22	87	20
10,690	56,967	42,365	46,277	.....	.....	10,690	225	56,967	40	11	51	21
1,500	55,751	35,265	50,651	.....	3,600	1,500	150	55,751	70	10	80	22
3,600	53,323	32,319	49,723	.....	.....	3,600	230	.....	50	16	66	23
3,152	50,863	35,265	46,665	.....	590	3,608	200	50,863	45	17	62	24
397	49,993	36,871	48,607	.....	989	397	164	49,993	45	14	59	25
3,600	49,219	35,501	26,769	17,829	1,021	3,600	263	44,219	60	20	80	26
1,090	44,254	31,742	43,164	.....	370	720	92	44,254	80	21	101	27
.....	43,750	31,500	42,250	.....	500	1,000	250	43,750	30	10	40	28
1,800	43,403	32,750	41,603	.....	600	1,200	215	17,361	55	23	78	29
.....	42,072	33,132	35,620	.....	1,198	5,254	241	42,072	28	9	37	30
2,904	39,258	28,302	36,304	.....	50	2,904	157	39,258	40	17	57	31
2,100	36,800	28,470	34,700	.....	.....	2,100	185	36,800	40	11	51	32
2,784	34,816	27,696	33,875	.....	141	800	109	34,816	55	21	76	33
1,702	34,040	33,614	21,751	.....	4,889	7,400	200	.....	84	8	92	34
.....	33,406	24,387	25,785	.....	7,121	5,000	243	33,406	30	11	41	35
4,945	32,250	26,268	19,856	1,059	6,390	4,945	200	32,250	32	7	39	36
989	29,148	21,254	28,113	.....	16	989	117	29,148	30	15	45	37
1,200	28,537	19,623	27,737	.....	.....	800	229	28,537	20	10	30	38
.....	28,015	25,958	26,733	.....	411	871	123	15,581	32	17	49	39
.....	27,805	21,986	25,618	.....	150	2,037	199	.....	30	11	41	40
370	26,957	20,029	25,587	.....	22	1,348	162	26,957	21	10	31	41
.....	26,502	18,979	17,802	.....	8,000	700	288	26,502	20	6	26	42
.....	25,096	21,547	24,556	.....	42	498	149	25,096	33	9	42	43
200	23,573	23,833	19,638	.....	946	2,989	150	.....	35	39	74	44
1,511	21,704	20,045	18,240	.....	1,953	1,511	185	21,704	23	6	29	45
.....	21,574	17,305	21,000	.....	.....	574	100	21,574	40	12	52	46
.....	20,381	14,563	18,481	.....	200	1,700	93	.....	35	15	50	47
1,548	20,207	15,021	16,331	.....	2,328	1,548	167	20,207	25	8	33	48
2,685	18,172	13,603	17,122	.....	100	950	78	18,172	69	9	78	49
.....	18,000	13,500	13,000	.....	5,000	.....	184	18,000	12	4	16	50
.....	16,976	13,581	16,376	.....	.....	600	100	.....	20	20	40	51
.....	13,776	10,640	6,921	.....	4,100	2,755	170	13,776	20	6	26	52
.....	11,050	9,491	10,355	.....	.....	695	100	.....	15	3	18	53
200	7,860	5,342	7,540	.....	120	200	150	7,860	6	4	10	54
525	6,660	4,248	5,760	.....	675	225	33	6,660	35	9	44	55
.....	5,004	3,002	4,810	52	39	103	75	5,004	10	5	15	56
400	4,650	3,634	4,250	.....	.....	400	36	4,650	35	13	48	57
.....	3,600	2,520	3,000	.....	.....	600	75	3,600	6	3	9	58
106,388	3,335,703	\$2,556,836	3,063,963	42,978	81,415	147,347	185	2,381,964	2,886	1,053	3,939	

*St. Clair County—Sixth District—Continued.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT of MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Frank Sargent.....	Belleville.....	8,429	2,412	108		95
2	Tower Grove Coal Co .....	do .....	12,480				
3	Augt Ebel .....	do .....	10,020				
4	Wm. Pistor .....	Millstadt .....	6,000				
5	James Taylor .....	Belleville.....	5,000				
6	James Beatty .....	Mascoutah .....	5,000				
7	Wm. Lattmann* .....	Belleville.....	3,000				
8	Geo. Penn .....	French Vil'ge .....	2,000				
9	Benj. Johnson .....	Belleville.....	1,000				
10	John Harst .....	do .....	1,000				
11	Dietrich Bros. ....	Freeburg .....	1,000				
12	Richard Grossman .....	Millstradt .....	975				
13	John Marshall .....	Caseyville .....	500				
14	Fred Irwin .....	Smithton .....	500				
15	Geo. Schmidt .....	Millstadt .....	400				
16	Conrad Reeb* .....	Belleville.....	400				
Totals .....			57,704	2,412	108		95
Totals 74 mines.....			750,332	1,876,660	39,646	123,069	499,927

\*New mine.

Mines in 1904, 69.

New mines, 9.

Abandoned mines, 4.

Mines in 1905, 74.

*St. Clair County—Sixth District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			
Slack or waste.	Total.		Tons loaded on cars for shipment	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	Number.
2,010	13,054	\$14,208			11,044	2,010	296	13,054	8	5	13	1
	12,480	13,229			12,480		280	12,480	8	7	15	2
	10,020	12,525			10,020		240	10,020	7	3	10	3
	6,000	6,000			6,000		258	6,000	8	1	9	4
	5,000	5,250			5,000		200	5,000	5	3	8	5
	5,000	5,250			5,000		300	5,000	5	2	5	6
	3,000	3,750			3,000		300	3,000	3	3	6	7
	2,000	2,500			2,000		200	2,000	4	2	6	8
	1,000	1,750			1,000		200	1,000	3	1	3	9
	1,000	1,250			1,000		150	1,000	3	1	4	10
	1,000	1,250			1,000		175	1,000	3	1	4	11
	975	1,219			975		100	975	3	1	3	12
	500	625			500		100	500	3	1	3	13
	500	625			500		100	500	3	1	3	14
	400	500			400		75	400	3	1	3	15
	400	500			400		50	400	2	1	3	16
2,010	62,329	\$75,431			60,319	2,010	189	62,329	64	34	98	
108,398	3,398,032	\$2,632,267	3,063,963	42,978	141,734	149,357	.....	2,444,293	2,950	1,087	4,037	



*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Bond .....	1	129,815	1,720	95,552	.....	168	32,298	77	\$ 130,847
Clinton .....	7	904,826	129,292	496,262	28,671	52,855	162,262	35,484	833,611
Madison .....	19	2,935,749	541,748	1,500,057	164,075	101,035	576,860	51,974	2,538,977
Marion .....	7	1,066,350	138,400	528,183	36,283	121,967	150,035	111,482	941,714
St. Clair .....	58	3,335,703	692,628	1,874,248	39,538	123,069	499,832	106,388	2,556,836
Totals and averages ..	92	8,392,443	1,503,788	4,494,302	268,567	399,094	1,421,287	305,405	\$7,001,985

*Recapitulation by Counties—*

COUNTIES.	Number of local mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Madison .....	19	52,157	52,157	.....	.....	.....	.....	.....	\$ 37,019
St. Clair .....	16	62,329	57,704	2,412	108	.....	95	2,010	75,431
Totals and averages ..	35	114,486	109,861	2,412	108	.....	95	2,010	\$162,450
Totals, district— all mines .....	127	8,506,929	1,613,649	4,496,714	268,675	399,094	1,421,382	307,415	\$7,164,435

Whole number of mines reported in 1904, 117.

Number of new mines opened during the year, 14.

Number of mines exhausted or abandoned during the year, 4.

Whole number of mines reported for 1905, 127.

*Sixth District—1905—Shipping Mines.*

EMPLOYES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.		By hand.	By machine.	Hand mining.	Machine mining.
140	71	211	122,274	.....	3,321	4,220	145	129,815	.....	\$0.52	.....
738	464	1,202	796,272	47,834	25,386	35,334	194	430,060	474,766	0.52545	\$0.47163
2,339	1,339	3,678	2,726,788	31,162	51,068	126,731	198	794,889	2,140,860	0.52	0.45
886	485	1,371	796,254	169,449	58,506	62,141	172	879,762	206,588	0.48088	0.41
2,886	1,053	3,939	3,063,963	42,978	81,415	147,347	185	2,381,964	953,739	0.52	0.45
6,989	3,412	10,401	7,505,551	291,423	219,696	375,773	187	4,616,490	3,775,953	\$0.51305	\$0.45053

*Sixth District—1905—Local Mines.*

EMPLOYES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	HOW MINED.		PRICES PAID PER TON FOR—	
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.		By hand.	By machine.	Hand mining.	Machine mining.
104	33	137	.....	.....	49,685	2,472	176	52,157	.....	\$0.67818	.....
64	34	98	.....	.....	60,319	2,010	189	62,329	.....	0.52424	.....
168	67	235	.....	.....	110,004	4,482	182	114,486	.....	\$0.595	.....
7,157	3,479	10,636	7,505,551	291,423	329,700	380,255	.....	4,730,976	3,775,953	.....	.....

## SEVENTH INSPECTION DISTRICT—1905.

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### TENTH ANNUAL REPORT.

(The seventh inspection district was formed in 1895, the first annual report was for the year ended June 30, 1896).

Counties—Franklin, Gallatin, Hamilton, Jackson, Jefferson, Johnson, Perry, Randolph, Saline, Washington, White, Williamson.

WILLIAM ATKINSON, *Inspector*, Murphysboro.

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It becomes our sad duty to chronicle the death of William Atkinson, late State Inspector of Mines for the Seventh Mine Inspection District. Of the dangers to which this class of State servants are exposed, he was the first to lose his life while engaged in the performance of his duty. It was nearly noon, April 3, 1905, when he learned that the coal mine at Zeiglar, Illinois,

had been wrecked by a great gas explosion and that everyone in the mine had been killed. Hurrying to the place of the disaster he descended the mine in company with a few other brave men, for the purpose of recovering the dead bodies, and to rescue those whom they hoped might yet be living. While engaged in this most commendable undertaking he had, in his anxious search, stepped for a moment out of the line of the air current, was seized by the deadly after-damp, and died before his companions could reach him. Deceased was born Feb. 2, 1848 at Alnwick, England, and came to this country in 1862. Shortly after reaching New York he enlisted in the Union Army, joining Company K, New York Volunteer Infantry, and served with distinction until the close of the war. His honorable discharge bears the date of July 18, 1865.

After the close of the war he located at Murphysboro, Illinois, where he continued to reside. He was married to Zerilda Kilgore, at Harrisburg, Illinois, February 16, 1876. Of this union nine children were born, but three of whom are living. Mr. Atkinson was appointed July 1, 1901, by Governor Yates as a member of the State Board of Mine Examiners. He continued to serve in that capacity until July, 1904, when he succeeded Even D. John, as State Inspector of Mines for the Seventh District. Prior to his connection with the State Service he had served as mine manager for several coal companies in the Southern part of the State. While deprived in early youth of the advantages of an education, he possessed a bright observing mind, and accumulated a considerable store of information on a variety of subjects. Aside from his experience in the army, before coming to this country, he followed the occupation of a British sailor, and, in the line of that employment, had visited nearly every port in the world. His extensive travels gave him an intimate knowledge of human affairs and quickened his judgment of men. His was the positive type of character, combined with deep sympathy and most generous impulses. His disposition was extremely kind and he was never so happy as when performing a service for others. He was a member of several secret societies, and was buried with Masonic honors at Murphysboro, April 7, 1905. Those who enjoyed his acquaintance will long remember him for his many loving qualities of head and heart.

Owing to the untimely death of State Inspector Atkinson, the report of the condition of the mines in the district is necessarily quite limited. However, several of the operators have furnished descriptions of new plants that have been put in operation during the year.

The most noticeable event occurring in the district during the year was the terrific explosion in the mine of the Zeigler Coal Co., at Zeigler, Franklin county, April 3, 1905, whereby fifty men lost their lives. The explosion was the most disastrous to human life, with one exception, that has ever occurred in the history of coal mining in the State. The exception was the calamity that befell the Diamond Mine at Braidwood, February 16, 1883, wherein 69 men were drowned by the sudden flooding of water into that mine.

The explosion at the Zeigler mine was made the matter of special notice by Governor Deneen, who instructed the State Mining Board and the State Inspectors of Coal Mines to thoroughly investigate the cause and results of this explosion, and make an official report to him of their findings. The Governor also appointed James Taylor, Peoria, State Inspector of Coal Mines for the Third District, and John G. Massie, Belleville, ex-State Inspector, formerly of the Fifth District, as experts to prosecute a similar investigation and report thereon. The several reports of these investigations will be found in a foregoing special article in the text of this report on the explosion at the Zeigler mine.

#### NEW MINES.

The Majestic Coal and Coke Co., Duquoin, Perry county, has opened and equipped a new mine four and one-half miles southeast of Duquoin. The shaft is one and one-quarter miles south of the line of the Illinois Central R. R. from St. Louis, with a switch from the main line, having yard room for 100 coal cars. The sinking of this shaft was begun July 5, 1904, and completed in January, 1905; the depth of the shaft is 402 feet to a seam of coal 9¼ feet thick. The output of the mine is now from 1,200 to 1,400 tons a

day, and steadily increasing. The mine has a steel tower; the tower house is 45x49 feet; the engine room is 30x40 feet, with two hoisting engines, 24x26 inch cylinders, each 300 horse power, and conical drums 6x8 feet; there are two boilers, 6x18 feet, with heater attachment. The powder house is built of brick with a storage capacity for 2,000 kegs of powder; there is also a corrugated iron building with concrete floor, having tanks for storing oils. The machine and blacksmith shops are fully up to date, being fully equipped for doing all necessary work and repairs. A wash house for the men, heated by radiators and with all necessary conveniences is furnished; also a barn with forty stalls for miners' horses. A daily passenger train service to and from the mine is supplied. The mine is supplied with a Jeffrey shaker screen, having a 2,000 tons capacity, a Christy box car loader, two pair of 100 ton Standard scales, with 42 inch beams; one of the scales has an automatic weighing attachment. The ventilating fan is 20 feet in diameter, capacity 100,000 cubic feet per minute, made by the Blakeslee Manufacturing company, Duquoin. There are two self dumping cages; the mine cars hold 1½ tons of coal.

The Zeigler Coal Co., Zeigler, Franklin county, has furnished the following description of the property and equipment of its plant: There are 7,550 acres of coal land, with an average thickness of twelve feet of coal. The present coal hoisting mechanism was placed in operation June 8, 1904. The general surface equipment connected with the hoisting and operation of coal is as follows:

**Head Frame**—At the head of the shaft there is a steel head frame consisting of vertical steel columns strongly framed and braced together, provided with back stays, well anchored to the foundations, the stays forming a stairway for access to the top of the head frame. The head frame is of the double compartment type, arranged with steel guides for two hoisting buckets; the buckets are of the self dumping skip type, so arranged that they discharge their contents automatically at the top of the head frame into a large steel receiving bin, from which the coal flows down into the breakers or screens; the skips are attached to 1½ inch hoisting cables. The head frame is equipped with two 8-foot sheave wheels; the vertical distance from the top of the foundation of the head frame to the center of the sheave wheels is 125 feet.

**Hoisting Engines**—The hoisting plant consists of a pair of bored guide heavy balanced slide valve engines, coupled at right angles to one shaft: the engines are fitted with a Stephenson link reverse motion. The drums are fitted with a heavy brake band operated by means of double connections to hand reverse on operating platform.

**Automatic Dumping Skips**—The plant is equipped with two automatic dumping skips 5 feet 11 inches square, by 9 feet 11½ inches deep; the hoisting bails of each skip are provided with safety release catches, whereby, in case of overwinding, the end of the hoisting cable is released from the skip and is automatically held up by means of hooks at the top of the head frame. At the bottom of the shaft the coal from the pit cars is dumped into an eighty ton receiving bin, the coal being discharged from the receiving bin into the hoisting skips.

**Revolving Tippler**—The coal from the pit cars is dumped by means of a revolving tippler, consisting of four steel rings forming bearing rollers, upon which the tippler rolls; two cars are dumped at a time.

**Breaker Building**—The breaker building is of fire proof steel construction, about 60x80 feet, and 100 feet high, and is equipped with 12 and 9 foot Bradford patent coal breakers. The coal from these breakers is discharged in its prepared state by means of conveying chutes, into cars below, or transferred to an 800 ton storage bin by means of a 140 foot belt conveyor; the breakers and belt conveyor are operated by electric motors.

**Power Plant**—The boiler room is equipped with four 400 horse power Heine water tube boilers; these boilers are equipped with automatic stokers: one boiler is provided with Green traveling link grates; one grate is 7 feet wide by 9 feet deep; this grate has a flat hanging igniting arch, consisting of steel cross girders, supporting on their lower flanges, laterally adjustable cast iron beams, between which special tile is suspended. The boilers are

connected up to a steel concrete breeching, which, in turn, is connected to a steel concrete chimney, 153 feet high, inside diameter 6 feet. All the water pumped into the boilers is passed through a Pittsburg feed water heater.

**Compressors**—The air plant consists of three class G Ingersoll-Sergeant steam driven duplex air compressors, with simple steam and cross compound air cylinders, of the piston inlet type, and a special improved receiver inter-cooler, the compressors are provided with the Meyer adjustable steam cut-off, and with an automatic airball governor.

**Electrical Equipment**—The electrical equipment consists of three Edison Bi-Polar Generators operating at 250 volts. These generators are driven by a 500-horse-power Bass Corliss engine, built with a driving wheel 18 feet in diameter; this equipment furnishes power for the mine, electric lights for the streets, houses, and power for the ice plant. The engine room is supplied with a ten-ton traveling crane, equipped with a Pilling air engine hoist.

**Ventilating Fan**—The ventilating fan is a 16 foot Robinson pattern, capable of delivering 200,000 cubic feet of air into the mine per minute.

**Machine Shop**—A brick machine shop 40 x 100 feet is situated just north of the power house, and is equipped with lathe, pipe machines, bolt machine, radial drill, bull-dozer, punch and shear, trip hammer, band saw and a wood turning and cutting machine. The wood working shop is prepared to rapidly turn out pit cars.

**Miners' Houses**—There are 115 houses, running in size from three to six rooms; three room houses rent for \$6.00 per month, including water; four room houses rent for \$7.00; five room houses for \$8.00 and six room houses for \$9.00, with water.

**Miners' Comfort**—A concrete wash house is provided, having 285 lockers, hot and cold water, with tub and shower baths.

An ice plant has been erected, provided with an electrically driven 15-ton refrigeration.

The store building is equipped with a cold storage room capable of holding two carloads of meat, the store has about 7,000 square feet of floor area.

The mine is connected with the Illinois Central Railroad and Iron Mountain & Southern Railway by the Chicago, Zeigler & Gulf Railway.

The town is supplied by a complete water system, the supply of water being pumped from the big muddy river. The office is a two story brick building. The hospital is a one story frame structure with basement, and will accommodate from twelve to thirty patients, according to the necessity that may arise, and will at present accommodate twenty-six. It is well equipped and modern in all respects.

The schoolhouse is a new fire-proof concrete building, having four rooms, halls, etc., and is capable of accommodating 200 pupils; the instructions given are as good as the best in the State.

The Equitable Coal Co., Duquoin, Perry county, has erected a new steel tower.

The Forester Coal Co., Duquoin, has put in a new engine 20 x 36 inch cylinders, a conical drum 8 feet in diameter; the boilers are 6 x 18 feet with seventy 4-inch flues. The fan is of the Guibal pattern, 20 feet in diameter.

#### FATAL ACCIDENTS.

There were seventy-nine men killed in this district during the year, fifty of whom lost their lives by the explosion at the mine of the Zeigler Coal Company, April 3, 1905. Owing to the death of State Inspector Atkinson, the detailed circumstances leading up to the causes of these fatalities are not as complete as is usually reported to the Bureau by the State inspectors. However, the Zeigler Coal Company has reported direct to the Bureau a carefully prepared list of the names of the killed by the explosion April 3, 1905, giving all the information possible to be obtained as to the nativity, residence and conjugal relationship of each man killed. Of the forty-nine men employed at the Zeigler mine losing their lives by this calamity, the bodies of forty-one were recovered and identified, while eight are reported as

missing, or their remains, if found, unrecognizable, therefore unidentified. The bodies of thirty of these unfortunates, identified, were buried at Zeigler, while eleven bodies were shipped to other places for burial. The occupation of the forty-nine killed or missing, forty-six have been given in the table following as that of miner, as no report was made as to their occupation, the ages were not ascertained; the place of burial, nativity, and the conjugal and family relationship so far as could be discovered, are given as follows:

Aured, C. O., buried at Zeigler, father living, no other near relatives known.

Baxter, William, mine manager, was buried at Ladd, Illinois, leaving a widow and one child, a daughter.

Baxter, William A., buried at Ladd, Illinois, leaving a widow.

Babincak, Mike, buried at Zeigler, leaving a widow and two children in Maltza, Hungary, Austria.

Babincak, Paul, buried at Zeigler, leaving a widow and three children in Maltza, Hungary, Austria.

Brunlick, Gustaff, buried at Zeigler, leaving a father and mother, possibly also brothers and sisters.

Campbell, Rolla, buried at the Harrison Cemetery, leaving a widow, no children, at Christopher, Illinois.

Davis, Robert T., single, buried at Coulterville, leaving parents and one brother.

Dombay, Ivan, single, buried at Zeigler, native of Nagy Kanisa, Hungary, leaving a brother in New Washington, Pennsylvania.

Dudas, Emerick, buried at Zeigler, leaving a widow and one child in Maltza, Hungary.

Dudas, John, buried at Zeigler, leaving a widow and three children in Maltza, Hungary.

Fedorka, Jonas, buried at Zeigler, leaving a widow and three children, address unknown.

Geisler, Joseph, single, buried at Zeigler, leaving mother and brothers and sisters, residence of family unknown.

Graham, John, mine examiner, was one of the rescuing party, and was overcome by after-damp. He was buried at Zeigler, relatives, if any, unknown.

Hare, Robert, buried at Greensburg, Penn., leaving a widow.

Haydukovic, Valent, buried at Zeigler, leaving a widow and four children in Carola Croatia, Hungary.

Jankowich, Peter, buried at Zeigler, leaving a widow, previously deserted, residence unknown, also a cousin in Philadelphia, Penn.

Jones, Everett, single, buried at Mulkeytown, Illinois, the home of his parents.

Koski, Capi, buried at Zeigler.

Koski, John, buried at Zeigler, nothing known of the relatives of these two men.

Kostick, Andrew, buried at Zeigler, leaving a widow and one child in Berek, St. Miklos county, Hungary.

Kostick, Frank, buried at Zeigler, leaving a widow and one child at the same address as the one previous.

Kowach, B., buried at Zeigler, leaving a widow and three children at Mandock, Hungary.

Kowachich, Ivan, single, buried at Zeigler, relatives at Nagy, Kanisa, Hungary.

Lindsey, John, one of the rescuing party, was overcome by the after-damp, was buried at Mulkeytown, Illinois. Nothing given as to family.

Lovrek, Mike, single, Austrian, buried at Zeigler; relatives unknown.

McKenzie, Andrew, buried at Zeigler, leaving brothers and a sister.

McKenzie, William, buried at Zeigler, leaving a widow and four children; location not given.

Macky, Oscar, buried at Zeigler, single, relatives unknown.

Moretti, David, buried at Zeigler, single, cousin, 623 N. 6th St., St. Louis, Mo. Parents in Milan, Italy.

Perryman, Frank, buried at Zeigler, deserted wife in Jackson, Miss. seven years ago, relative of Dr. Stam, Holly Springs, Miss.

Rayburn, James, buried at Carterville, leaving widow and one child at that place.

Rabby, A., buried at Zeigler, leaving widow residing at Witnyed, county Sopron, Hungary.

Robinson, C. B., buried at Crawfordsville, Indiana, leaves a widow at that place.

Sabolich, Steve, buried at Zeigler, leaving a widow and two children in Godala, Croatia, Hungary.

Semivan, Louis, buried at Zeigler, leaving a widow and two children in Nagy, Kanisa, Hungary.

Sloh, Joseph, buried at Zeigler, single, an Austrian-Pole, relatives in that country.

Tinan, David, buried at Zeigler, single, leaves a brother and sister, residence unknown.

Vinar, George, buried at Zeigler, single, relatives living in Pothering county, Borek, Hungary.

Withrow, H. M., buried at Newton Upper Falls, Mass., leaving brother and sister at that place.

Wood, J. O., was killed while working in the tower for a Construction Company, was buried at Cleveland, Ohio; nothing known of relatives.

The bodies of the following eight men were not recovered or were not identified:

Canfield, Mike, leaves a widow and six children, who will remove to Sheffield, Illinois.

Ipsan, Stif., leaves a widow and two children in Velika Croriza, Croatia, Hungary.

Maros, John, single, home same as preceeding.

Mikesie, T., leaves a widow, whereabouts unknown, native of Croatia, Hungary.

Nolan, J. T., leaves a mother.

Rashance, Mike, leaves a widow and one child in Torchich, Croatia, Hungary.

Roper, John, leaves a widow and four children in Chisholm, Minnesota, where he owned property.

Suke, Mike, single, so far as known, a native of Austria.

William Atkinson, State Inspector of Mines for the Seventh District, whose home was at Murphysboro, led the first rescuing party to enter the mine, and was soon overcome by gas or after-damp.

Following will be found the tables of the fatal and non-fatal accidents, also the usual county tables, giving the detailed information, of the coal mining industry of the district:



*Fatal Casualties—Seventh District—July 1, 1905.*

DATE.	NAME.	Age.	Occupation.	Residence (Town.)	Married.	Widow.	Children.	Single.	Persons dependent.	Cause of Accident.
1904.										
July	2 James Thornbery	24	Miner	Ledford	1	1	2	1		Falling coal and slate
	22 Charles Appino	39	do	Duquoin	1	1	2		3	Falling slate
Aug.	15 G. H. White	32	Electrician	Zeigler	1	1				Expl. gasoline torch
	22 Enos Metlock	69	Miner	do				1		Falling slate
Sept.	26 A. V. Dearing	47	Yardman	Pin kn'v'le	1	1	1		2	Railroad car
	27 Preston Mathis	47	Miner	Holden	1	1	5		6	Falling slate
Oct.	1 Ant. Zanoti	25	do	Herrin				1		Falling slate
	3 Wm. Rich	38	Miner	Sunfield			3	1	3	Falling rock
	6 Louis Bellotti	30	do	Clifford	1	1	2	1		Blast explosion
	7 Frank A. Troxell	17	do	Duquoin	1	1	2		3	Falling slate
	13 Frank Oldona	17	do	Herrin				1		Falling slate
Nov.	14 J. A. Manning	34	Cager	Coulterville	1	1	3		3	Cage
	16 John Farrara	30	Miner	Herrin	1	1	3		4	Powder explosion
	18 Gust. Ferrati	35	do	do				1		Powder explosion
	19 John Bice	17	do	Mt. Vernon	1	1	2	1		Falling cage
Dec.	5 Felix Harmon	26	do	Schuline	1	1	2		3	Falling slate
	7 Fred Garpmen	32	do	Duquoin	1	1			1	Blast explosion
	9 Chas. Carpenter	33	do	Eldorado	1	1	3		4	Blown out shot
	9 Weed Wilson	30	do	do	1	1	1		2	Blown out shot
	9 St. Bourland	23	do	do	1	1	1		2	Blown out shot
	9 John Hine	30	do	do	1	1	1		2	Blown out shot
	28 William C. Davis	37	Shot firer	Sparta				1		Blown out shot
1905.										
Jan.	10 George Maughan	34	Miner	Herrin	1	1				Powder expl., can
	18 Robert Broomfield	35	do	Marion	1	1	3		4	Flying coal
	30 William Smith	40	do	Mt. Vernon	1	1	5		6	Falling rock
April	3 William Atkinson	57	State insp't'r	Murphysb'o	1	1	3		4	After damp
	3 C. O. Aured		Miner	Zeigler				1		Gas explosion
	3 William Baxter		Mine mgr.	do	1	1	1		2	do
	3 William A. Baxter		Miner	do	1	1			1	do
	3 Mike Babincak		do	do	1	1	2		3	do
	3 Paul Babincak		do	do	1	1	3		4	do
	3 Gustaf Brumlick		do	do				1		do
	3 Rolla Campbell		do	do	1	1			1	do
	3 Robert T. Davis		do	do				1		do
	3 Ivan Dombay		do	do				1		do
	3 Emerich Dudas		do	do	1	1	1		2	do
	3 John Dudas		do	do	1	1	3		4	do
	3 Jonas Fedorka		do	do	1	1	3		4	do
	3 Joseph Geisler		do	do				1		do
	3 John Graham		Mine exam.	do				1		Afterdamp
	3 Robert Hare		Miner	do	1	1			1	Gas explosion
	3 Valent Haydukovic		do	do	1	1	4		5	do
	3 Peter Jankowich		do	do	1	1				do
	3 Everett Jones		do	do				1		do
	3 Capi Koski		do	do				1		do
	3 John Koski		do	do				1		do
	3 Andrew Kostick		do	do	1	1	1		2	do
	3 Frank Kostick		do	do	1	1	1		2	do
	3 B. Kowach		do	do	1	1	3		4	do
	3 John Lindsey		do	do	1	1			1	Afterdamp
	3 Andrew McKenzie		do	do				1		Gas explosion
	3 Wm. McKenzie		do	do	1	1	4		5	do
	3 Oscar Macky		do	do				1		do
	3 David Moretti		do	do				1		do
	3 Frank Peryman		do	do	1	1				do
	3 James Rayburn		do	do	1	1	1		2	do
	3 A. Rabby		do	do	1	1			1	do
	3 C. B. Robinson		do	do	1	1			1	do
	3 Steve Sabolich		do	do	1	1	2		3	do
	3 Louis Semivan		do	do	1	1	2		3	do
	3 Joseph Sloh		do	do				1		do
	3 David Tinan		do	do				1		do
	3 George Vinar		do	do				1		do
	3 H. M. Withrow		do	do				1		do
	3 J. O. Wood		Machinist	do				1		do
	3 Mike Lovrek		Miner	do				1		do
	3 Ivan Kowachich		do	do				1		do
	3 Mike Canfield		do	do	1	1	6		7	do
	3 Stif Ipsan		do	do	1	1	2		3	do

*Fatal Casualties—Seventh District—July 1, 1905—Concluded.*

Date.	NAME.	Age.	Occupation.	Residence. (Town.)	Married.	Widows.	Children. Single.	Persons dependent.	Cause of accident.
April	3 John Maros .....		Miner.....	Zeigler.....			1		Gas explosion .....
	3 T. Mikesie .....		do.....	do.....	1	1		1	do.....
	3 Mike Rashance .....		do.....	do.....	1	1	1	2	do.....
	3 John Roper .....		do.....	do.....	1	1	4	5	do.....
	3 J. T. Nolan .....		do.....	do.....				1	do.....
	3 Mike Suke .....		do.....	do.....			1		do.....
May	4 Casnio Boltina .....	30	do.....	Herrin.....			1		Blast explosion.....
	15 Fred H. Garity .....	28	do.....	Duquoin .....	1	1	1	3	Gas explosion .....
	20 Elijah Owens .....	45	do.....	Harrisburg .....	1	1	4	5	Falling slate.....
June	15 George Huggins.....	30	do.....	Cambria .....	1	1	5	6	Falling timber.....
	Total—79.....				47	45	92	32	125

*Recapitulation of Fatal Casualties—Seventh District—1905.*

Residence.	No.	Occupation.	No.	Nature of casualty	No.	Colliery.	No.
Cambria .....	1	Cager .....	1	Afterdamp.....	3	Big Muddy C. & I. Co.	4
Clifford .....	1	Electrician.....	1	Blown out shot.....	5	Carterville & Herrin C.C.	2
Coulterville.....	1	Machinist.....	1	Explosion gaso.....		Chic. & B. Muddy C. Co.	1
Duquoin .....	4	Mine exam'r .....	1	line torch.....	1	Chic. & Carterville C. C.	1
Eldorado.....	4	Mine manag'r .....	1	Explosion shots.....	3	Colp Coal Co.....	1
Harrisburg.....	1	Miners.....	71	Falling cage.....	2	Consolidated Coal Co.....	1
Herrin .....	6	Shot firer.....	1	Falling coal and		Davenport Coal Co.....	1
Holden .....	1	State inspector .....	1	slate.....	1	Eaton Fuel Co.....	1
Marion.....	2	Yardman.....	1	Falling rock.....	2	Eldorado Coal Co.....	4
Mt. Vernon.....				Falling slate.....	8	Gas Coal Co.....	1
Murphysboro .....	1			Falling timber.....	1	Illinois Fuel Co.....	1
Pinckneyville .....	1			Flying coal.....	1	Jefferson Coal Co.....	2
Schulney.....	1			Gas explosion.....	48	Manufacturers Coal Co.....	1
Sparta .....	1			Powder explosion .....	3	Moffatt Coal Co.....	1
Sunfield.....	1			Railroad car.....	1	Morris Bros.....	2
Zeigler.....	51					Owen City Mining Co.....	1
						White Walnut Coal Co.....	1
						Zeigler Coal Co.....	52
Totals.....	79		79		79		79

*Non-Fatal Casualties, Seventh District, July 1, 1905.*

DATE.	NAME.	Age.	Residence. (Town.)	Married. Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
1894								
July	1 Arch Donaho.....	35	Marion.....	1	3		4 Body injured, falling off ladder	45
	5 Israel Bates.....	34	Murphysboro .....	1	1		2 Foot injured, falling slate.....	203
	7 G. W. Stoner.....	35	Murphysboro .....	1	2		3 Ankle injured, falling coal.....	64
	12 John Glover.....	50	Duquoin.....	1			1 Body injured, falling coal.....	56
	14 Chas. Kincannon.....	49	St. Johns.....	1			1 Body injured, falling slate.....	50
	16 Bart Marco.....	23	Herrin.....	1	1		1 Head and body injured, pit cars	30
	27 Louis Berra.....	30	Herrin.....	1			1 Head and body inj., falling coal	41
	27 Henry Jerrella.....	50	Equality.....	1			1 Body injured, falling slate.....	50
	27 W. T. Newton.....	69	Crainville.....	1			1 Body injured, falling slate.....	50
Aug.	4 Louis Branco.....	51	Murphysboro .....	1	3		4 Eye injured, falling coal.....	38
	15 Alfred Wood.....	20	Ledford.....	1			1 Body injured, cage.....	50
	22 Walter Ballard.....	34	Murphysboro .....	1	2		3 Leg injured, falling off pit car.	79

## Non-Fatal Casualties, Seventh District—Continued.

DATE.	NAME.	Age.	Residence. (Town)	Married.	Single.	Children.	No. Persons Dependent.	Character of Injury and Cause of Accident.	Time lost— Days.
Aug. 30	Ves. Menard.....	50	Sparta.....	1	1	4	5	Foot injured, falling slate.....	60
30	Geo. Roucher.....	35	Zeigler.....	1	1	1	1	Body burned, powder explos'n	*
30	Thos. Ukeritch.....	24	Zeigler.....	1	1	1	1	Body burned, powder explos'n	*
31	R. Hockenbury.....	18	Zeigler.....	1	1	1	1	Leg broken, motor.....	*
Sept. 3	Rolla Launius.....	28	Herrin.....	1	1	1	2	Body inj., falling from R. R. car	34
28	A. J. Chitty.....	59	Herrin.....	1	1	4	5	Arm inj., scale beam and timber	35
28	Leo Harris.....	25	Herrin.....	1	1	1	1	Foot crushed, pit car.....	70
Oct. 6	John Summow.....	21	Duquoin.....	1	1	1	1	Hand crushed, pit car.....	38
6	Walter Newton.....	25	Willisville.....	1	1	1	1	Body injured, bar of door.....	77
10	Frank Mertelli.....	24	Dewmaine.....	1	1	1	1	Body injured, falling rock.....	49
12	J. M. Smith.....	56	Willisville.....	1	1	1	2	Body injured, falling slate.....	130
14	Thomas Minter.....	57	Percy.....	1	1	1	2	Foot crushed, falling coal.....	30
	Harry Oldona.....	18	Herrin.....	1	1	1	1	Leg broken, flying coal.....	228
21	John Thetford.....		Herrin.....	1	1	1	1	Body burned, blown out shot.....	70
22	Jack Palano.....	35	Willisville.....	1	1	1	2	Body burned, powder explos'n	30
31	Robert Eldridge.....	56	Cuttler.....	1	1	8	9	Body injured, falling slate.....	35
Nov. 19	Peter Ponzie.....	41	Herrin.....	1	1	3	4	Body burned, gas explosion.....	93
28	William Russell.....	23	Ledford.....	1	1	1	2	Body injured, kicked by mule.....	32
Dec. 2	Hugh Gasner.....	22	Ledford.....	1	1	1	1	Fingers cut off, pit car.....	35
10	James Warren.....	46	Cambria.....	1	1	4	5	Hips injured, falling slate.....	68
17	Frank Galodo.....	55	Murphysboro.....	1	1	1	2	Body injured, falling slate.....	35
21	Samuel Watkins.....	28	Dewmaine.....	1	1	1	1	Collar bone and ribs broken, R. R. car.....	60
22	Roco Mandrano.....	44	Dewmaine.....	1	1	1	1	Leg broken, falling coal.....	138
24	Lewis Fedorka.....	30	Zeigler.....	1	1	1	1	Face and shoulder inj., cage.....	*
1905									
Jan. 2	William Patton.....	18	Carterville.....	1	1	1	1	Leg broken, pit car.....	141
3	John Palzer.....	18	Murphysboro.....	1	1	1	1	Shoulder injured, pit car.....	33
11	Lewis White.....	21	Zeigler.....	1	1	1	1	Leg broken, motor.....	*
14	Tillman Samuels.....	37	Elkville.....	1	1	1	1	Finger cut off, castings.....	45
16	H. Davis.....	32	Marion.....	1	1	2	3	Leg broken, cage.....	35
19	John Sawman.....	20	Murphysboro.....	1	1	1	2	Knee injured, pit car.....	41
20	John W. West.....	26	Zeigler.....	1	1	1	1	Leg injured, motor.....	*
22	Arthur Brown.....	35	Percy.....	1	1	1	1	Foot broken, motor.....	42
23	James Polifroni.....	23	Dewmaine.....	1	1	1	1	Body injured, falling slate.....	118
24	George Madison.....	32	Sparta.....	1	1	1	1	Finger broken, tail chain.....	35
25	Robert Cook.....	27	Marion.....	1	1	1	1	Badly injured, hit car.....	56
26	Thomas Taylor.....	42	Tamaroa.....	1	1	5	6	Badly burned, blown out shot.....	45
30	Grover Taylor.....	17	do.....	1	1	1	1	Badly burned, blown out shot.....	45
30	Herby Watson.....	25	Dewmaine.....	1	1	1	1	Body injured, falling coal.....	30
30	Immers Larsen.....	40	Zeigler.....	1	1	1	1	Hands and face bur'd, pow'r ex.	*
31	Gerson Person.....	35	Duquoin.....	1	1	1	2	Body injured, powder explos'n	90
31	Alexander Works.....	28	do.....	1	1	3	4	Body injured, powder explos'n	40
Feb. 1	A. R. Smith.....	31	Willisville.....	1	1	1	1	Body injured, falling slate.....	75
7	Eustine Covatti.....	30	Zeigler.....	1	1	1	1	Leg broken, motor.....	*
7	Benj. Pullram.....	30	Gallatia.....	1	1	2	3	Face and hands burned, over- charged shot.....	60
7	Charles Pullram.....	32	do.....	1	1	3	4	Face and hands burned, over- charged shot.....	60
7	James Duffy.....	40	do.....	1	1	1	1	Badly injured, flying coal.....	70
8	Mike Frebensky.....	45	Zeigler.....	1	1	6	7	Leg injured, pit cars.....	*
8	Andy Smith.....	26	do.....	1	1	1	1	Leg injured, explosion of cap.....	*
14	L. L. Merino.....	31	Willisville.....	1	1	1	2	Body injured, mining machine.....	30
27	George Rosaw.....	33	Murphysboro.....	1	1	5	6	Hips injured, pit car.....	*
28	R. E. Gephart.....	22	do.....	1	1	1	1	Legs and body injured, wash- ing machinery.....	32
March 2	Charles Pritchett.....	42	Duquoin.....	1	1	2	3	Body injured, falling slate.....	75
3	Wm. H. Buris.....	46	Murphysboro.....	1	1	2	3	Body injured, falling slate.....	90
7	Hampton Griffin.....	50	do.....	1	1	1	2	Body injured, falling slate.....	35
13	Albert Terry.....	22	Duquoin.....	1	1	1	1	Body injured, falling slate.....	30
20	John Hicks.....	42	Ledford.....	1	1	2	3	Body injured, falling slate.....	40
31	Chas. Junovchich.....	30	Zeigler.....	1	1	1	2	Head injured, return'g to shot.....	*
31	Mike Tuca.....	36	do.....	1	1	3	4	Head injured, return'g to shot.....	*
April 14	Joe Loukaski.....	44	Johston City.....	1	1	1	1	Leg broken, flying coal.....	*
17	Phillips Barani.....	18	Murphysboro.....	1	1	1	1	Body injured, falling slate.....	90
May 10	Chas. Scroggins.....	45	Zeigler.....	1	1	1	1	Leg broken, falling into hole.....	*
11	Mio. Bloswich.....	54	do.....	1	1	1	4	Shoulder injured, falling rock.....	30
15	Edward Flynn.....		Duquoin.....	1	1	1	1	Body burned, gas explosion.....	90
15	Scott Pleasant.....		do.....	1	1	1	1	Body burned, gas explosion.....	75
15	Jack Cross.....		do.....	1	1	1	1	Body burned, gas explosion.....	80
17	David Gurley.....	23	Herrin.....	1	1	2	3	Leg injured, R. R. car.....	33
23	Henry Hoffman.....	24	Pinckneyville.....	1	1	1	1	Body injured, pit car.....	30
25	Herman Cox.....	30	Herrin.....	1	1	1	1	Leg injured, falling slate.....	30

*Non-Fatal Casualties—Seventh District—Concluded.*

DATE.	NAME.	Age.	Residence. (Town)	Married. Single.	Children.	No. persons dependent.	Character of Injury and Cause of Accident.	Time lost— days.
June 3	Elick Casey.....	57	Zeigler .....	1	5	6	Foot broken, falling rock.....	*
27	David Francis.....	30	Herrin .....	1	1	2	Leg broken, flying coal.....	90
27	Lee Casey.....	30	Carterville .....	1	1	2	Body injured, blown-out shot..	60
27	Cal. Carey.....	35	do .....	1	1	2	Body injured, blown-out shot..	60
28	John Hadfired.....	57	do .....	1	5	6	Body injured, falling slate.....	30
.....	Totals .....			59	26	96	153	

Total number of men injured—85.

Not recovered July 1, 1905—15.

Number recovered July 1, 1905—70.

Time lost by men recovered—4,304 days.

Average days lost by men recovered—61.49 days.

*Recapitulation of Non-Fatal Casualties—Seventh District—1905.*

Residence.	C Z	Occupation.	C Z	Cause of Accident.	C Z	Colliery.	C Z
Cambria.....	1	Carpenter...	1	Bar of door.....	1	Big Muddy Coal Co.....	11
Carterville.....	4	Car trimmer	1	Blast explosion.....	4	Boyd Coal Co.....	1
Crainville.....	2	Drivers .....	13	Blown-out shots.....	5	Carterville & B. M. C. Co.	1
Cutler.....	1	Electrician ..	1	Cages .....	3	Carterville-Herrin C. Co.	1
Dewmaine.....	5	Engineer .....	1	Castings .....	1	Carterville Mining Co.....	1
Duquoin.....	9	Fireman .....	1	Explosion of cap.....	1	Chicago & B. M. C. Co.....	1
Elkville.....	1	Laborers .....	4	Falling coal.....	7	Chi. & Carterville C. Co.	6
Equality.....	1	Loaders.....	4	Falling from ladder..	1	Chi. & Marion C. Co.....	1
Galatia.....	3	Machine .....	1	Falling into hole.....	3	Davenport Coal Co.....	4
Herrin.....	12	runner .....	1	Falling rock.....	3	Donnelly-Koenneck.....	2
Johnston City.	1	Mine mgr.....	1	Falling slate.....	19	Galatia Coal Co.....	3
Ledford.....	4	assistant.....	1	Flying coal.....	4	Gallatin.....	1
Marion.....	3	Miners.....	42	Gas explosion.....	4	Greenwood & Davis.....	3
Murphysboro..	11	Shot firers....	5	Kicked by mule.....	1	Gus Blair Coal Co.....	3
Percy.....	2	Timbermen....	3	Mining machine.....	1	Jupiter Coal Co.....	2
Pinckneyville..	1	Top laborers..	2	Motors.....	5	Lake Superior Coal Co.....	2
St. John.....	1	Trackmen.....	2	Pit cars.....	12	Little Muddy Coal Co.....	2
Sparta.....	2	Trip riders....	2	Powder explosion.....	6	Missouri & Ill. Coal Co.....	1
Tamaroa.....	2	Washer .....	1	Railroad cars.....	3	Moffat Coal Co.....	1
Willisville.....	5			Scale beam and timber	1	Muddy Valley Coal Co.....	1
Zeigler.....	15			Tail chain.....	1	New Ohio Coal Co.....	1
				Washing machinery.	1	New Virginia Coal Co.....	1
						Queen City Coal Co.....	3
						St. Louis & B. M. C. Co.	5
						Schmidgall Coal Co.....	1
						Sunnyside Coal Co.....	3
						White Walnut Coal Co.....	1
						Willis Coal Co.....	7
						Zeigler Coal Co.....	15
Totals .....	85		85		85		85

*Table Showing the Nature of Injuries, Number of Persons Injured, Dependents, Time Lost, with Averages and Percentages—Seventh District—July 1, 1905.*

NATURE OF INJURIES.	Number.	Married.	Single.	Dependents.	TIME LOST.		Percent of injuries.
					Total Days.	Average Days.	
Ankle injured.....	1	1	.....	3	64	64.00	1.18
Arm injured.....	1	1	.....	5	35	35.00	1.18
Bodies burned.....	7	4	3	9	450	64.30	8.24
Bodies injured.....	34	25	9	63	1,870	55.00	40.00
Collar bones broken.....	1	1	.....	1	60	60.00	1.18
Eye injured.....	1	1	.....	4	98	60.00	1.18
Face injured.....	3	3	.....	7	120	40.00	3.53
Fingers broken.....	2	2	.....	6	35	17.50	2.35
Finger cut off.....	1	1	1	1	80	40.00	2.35
Feet injured.....	3	4	1	10	405	81.00	5.88
Hands injured.....	2	1	1	1	38	19.00	2.35
Heads injured.....	2	2	.....	6	.....	.....	2.35
Heads and bodies injured.....	2	1	1	1	71	35.50	2.35
Hips injured.....	2	2	.....	11	68	34.00	2.35
Knee injured.....	1	1	.....	2	41	41.00	1.18
Legs broken.....	10	3	7	6	632	70.22	11.76
Legs injured.....	7	4	3	13	174	24.86	8.24
Shoulders injured.....	2	1	1	4	63	31.50	2.35
Totals, averages and percentages.....	85	58	27	153	4,304	61.49	100.00



*Franklin County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Zeigler Coal Co., No. 1.....	Zeigler .....	79,061	1,029		171	22,942
2	Dering Coal Co., No. 11*.....	W. Frankfort.	10,523	3,843	3,234	3,432	5,533
3	Benton Coal Co., No. 1*.....	Benton .....	974	1,630	326	1,560	2,510
Totals .....			90,558	6,502	3,560	5,163	30,985

\* New mine.  
 Mines reported for 1904, 1.  
 New mines, 2.  
 Mines in 1905, 3.

*Gallatin County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings
SHIPPING MINES.							
1	Gallatin Coal & Coke Co .....	Equality .....		31,323	5,984	14,930	11,855
2	Browne Coal Co., East Side .....	do .....		3,404			2,268
	Totals .....			34,727	5,984	14,930	14,123
LOCAL MINES.							
1	W. H. McLain .....	Equality .....	1,350				
2	J. P. Strong .....	Saline Mines .....	1,200				
3	M. Corney .....	Shawneetown .....	400				
4	Scott Harper .....	Equality .....	150				
	Totals .....		3,100				
	Totals—6 mines .....		3,100	34,984	5,984	14,930	14,123

Mines in 1904, 6.  
 Mines in 1905, 6.

*Franklin County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	103,223	\$95,656	91,263	.....	1,460	10,500	235	.....	101	280	381	1
.....	26,565	20,820	25,701	.....	264	600	170	26,565	8	2	10	2
.....	7,000	5,355	5,777	.....	873	850	54	.....	9	13	22	3
.....	136,788	\$121,831	122,741	.....	2,097	11,950	202	26,565	118	295	413	

*Gallatin County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
3,765	67,857	\$63,480	50,285	2,186	9,607	5,779	180	67,857	81	28	109	1
.....	5,672	4,652	5,276	.....	71	325	75	5,672	18	14	32	2
3,765	73,529	\$68,132	55,561	2,186	9,678	6,104	180	73,529	99	42	141	
.....	1,350	\$2,025	.....	.....	1,350	.....	208	1,350	6	2	8	1
.....	1,200	1,500	.....	.....	1,200	.....	100	1,200	4	1	5	2
.....	400	600	.....	.....	400	.....	100	400	2	1	3	3
.....	150	188	.....	.....	150	.....	30	150	1	1	2	4
.....	3,100	\$4,313	.....	.....	3,100	.....	110	3,100	13	5	18	
3,765	76,629	\$72,445	55,561	2,186	12,778	6,104	.....	76,629	112	47	159	



*Hamilton County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	John C. Harper.....	McLeansboro.	200	.....	.....	.....	.....
	Totals .....	.....	200	.....	.....	.....	.....

*Jackson County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Big Muddy Coal & Iron Co. No. 6.	Murphysboro.	30,227	60,027	32,340	.....	77,812
2	Muddy Valley M. & M. C. Hal'boro	Hallidayboro.	9,229	59,126	63,626	7,890	36,363
3	Big Muddy C. & I. Co., Harrison...	Murphysboro.	1,997	84,278	.....	.....	59,496
4	Gartside Coal Co., No. 4.	do.	.....	42,532	.....	9,161	7,286
5	Inland Coal & Washing Co., No. 1.	DeSoto.	.....	13,400	.....	29,820	.....
6	Gus Blair Big Muddy Coal Co. No. 1	Murphysboro	.....	31,704	.....	.....	16,002
7	Gartside Coal Co., No. 3.	do.	.....	24,578	.....	5,333	.....
8	Chi. & Carbondale C. C., Elk Ridge	DeSoto	1,000	10,000	5,000	5,000	9,000
9	Schmidgall Coal Co., No. 1.	Murphysboro.	2,110	1,406	.....	351	.....
Totals .....			44,563	327,051	100,966	58,055	205,963
LOCAL MINES.							
1	M. M. Thompson & Co.	Carbondale	1,500	.....	.....	.....	.....
2	J. B. Schimpf	Vergennes	1,200	.....	.....	.....	.....
3	D. Dawson	Campbell Hill	1,087	.....	.....	.....	.....
4	J. L. Culley	DeSoto	1,000	.....	.....	.....	.....
5	John Herman	Oraville	800	.....	.....	.....	.....
6	Robert Edwards*	Ava	680	.....	.....	.....	.....
7	W. F. Johnson*	do.	640	.....	.....	.....	.....
8	W. R. Campbell	Vergennes	624	.....	.....	.....	.....
9	W. H. Myers	Carbondale	400	.....	.....	.....	.....
10	Austin & Petty	Campbell Hill	200	.....	.....	.....	.....
11	J. G. Tygett	Carbondale	80	.....	.....	.....	.....
Totals .....			8,211	.....	.....	.....	.....
Totals—20 mines .....			52,774	327,051	100,966	58,055	205,963

\* New mines.  
 Mines reported for 1904, 18.  
 New mines, 2.  
 Mines in 1905, 20.

*Hamilton County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	200	\$250	.....	.....	200	.....	20	200	12	.....	12	1
.....	200	\$250	.....	.....	200	.....	20	200	12	.....	12	

*Jackson County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	200,406	\$190,790	183,922	.....	.....	16,484	221	19,806	170	137	307	1
21,977	198,211	181,797	109,695	63,626	2,913	21,977	188	198,211	160	113	273	2
.....	145,773	144,680	132,877	.....	.....	12,896	170	8,305	182	89	271	3
5,467	64,448	88,058	58,981	.....	.....	5,467	186	8,819	50	44	94	4
12,780	56,000	51,187	43,000	.....	320	12,680	225	56,000	75	45	120	5
2,604	50,310	65,619	47,080	.....	626	2,604	280	3,979	50	11	65	6
14,331	44,742	52,003	27,454	.....	2,957	14,331	198	2,539	48	32	80	7
.....	30,000	29,300	28,500	.....	500	1,000	150	30,000	35	22	57	8
133	4,000	5,628	320	.....	2,980	700	120	.....	8	8	16	9
57,292	793,890	\$789,062	631,829	63,626	10,296	88,139	193	327,660	778	505	1,283	
.....	1,500	\$1,500	.....	.....	1,500	.....	130	1,500	4	.....	4	1
.....	1,200	1,800	.....	.....	1,200	.....	300	1,200	7	2	9	2
.....	1,087	1,902	.....	.....	1,087	.....	260	1,087	3	1	4	3
.....	1,000	1,500	.....	.....	1,000	.....	100	1,000	3	2	5	4
.....	800	1,000	.....	.....	800	.....	120	800	3	.....	3	5
.....	680	850	.....	.....	680	.....	215	680	12	1	3	6
.....	640	960	.....	.....	640	.....	60	640	12	1	3	7
.....	624	936	.....	.....	624	.....	.....	624	12	1	3	8
.....	400	624	.....	.....	400	.....	150	400	1	.....	1	9
.....	200	350	.....	.....	200	.....	200	200	12	.....	2	10
.....	80	100	.....	.....	80	.....	60	80	12	1	3	11
.....	8,211	\$11,522	.....	.....	8,211	.....	145	8,211	31	9	40	
57,292	802,101	\$800,584	631,829	63,626	18,507	88,139	.....	335,871	809	514	1,323	

*Jefferson County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	Jefferson County Coal Co.....	Mt. Vernon...	29,702				
2	I. R. Yates .....	Dahlgren .....	434				
3	Sophia A. Shelton .....	Opdyke.....	100				
Totals, 3 mines.....			30,236				

Mines reported for 1904, 3.  
Mines in 1905, 3.

*Johnson County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINES.							
1	W. F. Kilgore.....	Reynoldsburg	1,200	.....	.....	.....	.....
2	J. W. Tyler.....	New Burnside	1,200	.....	.....	.....	.....
Totals, 2 mines.....			2,400	.....	.....	.....	.....

Mines reported for 1904, 3.  
Abandoned mines, 1.  
Mines in 1905, 2.

*Jefferson County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	29,702	\$31,187	.....	.....	29,702	.....	219	29,702	30	16	46	1
.....	434	760	.....	.....	434	.....	40	434	7	.....	7	2
.....	100	175	.....	.....	100	.....	120	100	2	.....	2	3
.....	30,236	\$32,122	.....	.....	30,236	.....	126	30,236	39	16	55	

*Johnson County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	1,200	\$1,800	.....	.....	1,200	.....	200	1,200	2	1	3	1
.....	1,200	1,500	.....	.....	1,200	.....	150	1,200	2	.....	2	2
.....	2,400	\$3,300	.....	.....	2,400	.....	175	2,400	4	1	5	

*Perry County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Willis Coal & Mining Co., No. 1...	Willisville	239,264	1,809			401
2	White Walnut Co.	Pinckneyville	1,534	88,544	57,112		58,193
3	Missouri & Illinois Coal Co., No. 4	Willisville	127,268				
4	Queen City Mining Co.	Duquoin		35,800			53,000
5	Manufacturers' Fuel Co., Jup. No.1	do		43,053	2,698		29,218
6	Lake Superior Coal Co., Pope mine	do		45,070		7,511	15,024
7	Greenwood-Davis Coal Co.	do	1,350	13,000	10,800	10,800	6,480
8	Manufacturers' Fuel Co., Jup. No. 2	do	1,128	25,181	1,610		18,350
9	Equitable Coal Co., Majestic	do	2,000	12,982	9,720	9,720	10,000
10	West Muddy Coal Co.	Coulterville.		34,564			6,912
11	Bailey Bros. Coal Co., No. 3	Sunfield		24,574	780	2,966	5,792
12	Soper & Co., Bernard	Cutler	14,023	20,000	500	362	400
13	Eaton Fuel Co., Black Diamond.	Duquoin		22,628			11,316
14	Little Muddy Coal Co.	Tamaroa		18,927			9,321
15	New Moon Mining Co., N. Moon.	Duquoin	240	12,300	1,365	4,200	5,308
16	Morris Bros., Perry County	do		18,856			4,456
17	Forester Coal & Coke Co.	do	7,819	3,148	3,268		4,651
18	Duquoin Pittsb'g C. & C. Co., Horn	do		7,593	2,843		7,556
19	Manufacturers' Fuel Co., Jup. No. 3	do		8,870			6,113
20	Strait Coal Co.	Pinckneyville	3,970	4,538			670
21	M. H. Wilson Coal Co.	Duquoin		3,400		1,600	1,600
22	Manufacturers' Fuel Co., Jup. No. 5	St. John	2,901				1,320
Totals.....			398,596	447,718	90,694	37,159	256,081
LOCAL MINES.							
1	M. H. Wilson*	Duquoin	12,000				
2	J. G. Schneider*	Pinckneyville	2,542				
3	John Anderson*	do	828				
4	Thomas Greenwood*	Duquoin	140				
Totals.....			15,510				
Totals—26 mines.....			414,106	447,718	90,694	37,159	256,081

\*New mines.

Mines reported for 1904, 20.

New mines, 6.

Mines in 1905, 26.

*Perry County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	Number.
.....	241,474	\$236,697	155,594	80,255	1,874	3,751	290	125,866	220	81	301	1
3,490	208,873	168,922	147,973	55,876	1,534	3,490	261	208,873	170	65	235	2
231	127,499	114,541	126,553	.....	715	231	237	127,499	105	24	129	3
.....	88,800	54,350	84,000	.....	2,000	2,800	225	88,800	100	39	139	4
.....	74,969	58,434	71,895	.....	1,362	1,712	124	74,969	110	49	159	5
.....	67,605	64,600	65,205	.....	600	1,800	208	67,605	65	21	86	6
12,420	54,850	46,760	50,000	.....	2,000	2,850	205	54,850	80	31	111	7
.....	46,269	35,730	44,934	.....	.....	1,335	124	46,269	74	24	98	8
.....	44,402	43,563	43,700	.....	52	650	150	44,402	85	30	115	9
.....	41,476	32,490	41,476	.....	.....	.....	100	41,476	70	9	79	10
2,879	36,991	31,264	33,417	.....	695	2,879	226	36,991	45	18	63	11
1,000	36,285	35,153	28,285	6,000	1,000	1,000	175	36,285	40	12	52	12
.....	33,944	29,983	32,914	.....	250	780	142	33,944	47	16	63	13
.....	28,248	24,301	22,754	.....	4,794	700	92	28,248	54	21	75	14
1,200	24,613	27,318	20,731	.....	2,882	1,000	219	24,613	32	11	43	15
1,200	24,512	20,193	23,312	.....	.....	1,200	240	24,512	30	13	43	16
.....	18,884	14,738	18,884	.....	.....	.....	150	18,884	40	22	62	17
.....	17,992	13,613	16,656	.....	.....	1,336	56	17,992	87	52	139	18
.....	14,983	11,493	14,414	.....	.....	569	57	14,983	62	23	85	19
540	9,718	10,268	7,877	.....	1,491	350	175	9,718	12	4	16	20
.....	6,600	7,480	1,600	.....	5,000	.....	200	6,600	10	4	14	21
.....	4,221	3,487	3,921	.....	.....	300	65	4,221	10	5	15	22
22,960	1,253,208	\$1,085,360	1,056,095	142,131	26,249	28,733	192	1,137,600	1,548	574	2,122	
.....	12,000	\$21,000	.....	.....	12,000	.....	300	12,000	10	5	15	1
.....	2,542	3,813	.....	.....	2,542	.....	250	2,540	3	1	4	2
.....	828	1,449	.....	.....	828	.....	240	828	.....	.....	2	3
.....	140	245	.....	.....	140	.....	36	140	6	2	8	4
.....	15,510	\$26,507	.....	.....	15,510	.....	207	15,310	21	8	29	
22,960	1,268,718	\$1,111,867	1,056,095	142,131	41,759	28,733	.....	1,153,110	1,569	582	2,151	

*Randolph County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Bagg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Willis Coal Mining Co. No. 6	Percy	105,313	20,162			6,042
2	Moffat Coal Co., Moffat	Sparta	71,057	6,980			
3	Crystal Coal Co., No. 1	Tilden	2,868	33,902			3,443
4	Coulterville Mining Co., No. 1	Coulterville	19,521	20,512			2,082
5	Tilden Coal Co.	Tilden	7,571	23,025		2,626	2,385
6	Illinois Fuel Co. No. 4	Sparta	40,845				
7	J. A. Greim, Consol.	Coulterville		30,600			9,077
8	Illinois Fuel Co. No. 3	Sparta	28,895	2,807			720
9	Boyd Coal & Coke Co. No. 1	do	4,000	16,000		800	700
10	Eureka Coal Co. No. 2*	Tilden	1,768	3,944			1,157
Totals:			291,858	163,913		3,426	34,275
LOCAL MINES.							
1	Boyle Coal Co.	Sparta		3,820			955
2	John McDill*	Sparta	2,900				
Totals			2,900	3,820			955
Totals, 12 mines			294,758	167,733		3,426	35,230

\* New mine.

Mines reported for 1904, 13.

New mines, 2.

Abandoned mines, 3.

Mines in 1905, 12.

*Randolph County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total.	
.....	131,517	\$125,046	128,134	.....	1,561	1,802	250	129,210	100	33	133	1
1,651	79,678	70,464	78,028	.....	750	900	197	79,678	70	12	82	2
5,680	50,882	40,986	40,078	.....	5,124	5,680	118	50,882	69	20	89	3
4,880	49,915	39,394	42,924	.....	2,111	4,880	265	49,915	40	20	60	4
2,527	44,955	35,815	41,493	.....	935	2,527	128	44,955	60	33	93	5
.....	40,845	35,944	39,405	.....	.....	1,440	190	.....	30	20	50	6
.....	39,617	29,469	38,845	.....	.....	772	200	39,617	33	7	40	7
.....	32,422	28,728	31,463	.....	.....	960	211	32,422	35	13	48	8
500	22,000	25,200	20,000	.....	1,500	500	200	22,000	35	15	50	9
142	6,981	4,915	6,539	.....	.....	142	71	6,981	10	3	13	10
15,360	496,512	\$435,961	467,208	.....	12,001	19,603	198	455,660	482	166	648	.....
.....	4,775	\$5,969	.....	.....	3,820	955	.....	4,775	4	1	5	1
.....	2,960	2,960	.....	.....	2,960	.....	.....	2,960	5	2	7	2
.....	7,735	\$8,929	.....	.....	6,780	953	.....	7,735	9	3	12	.....
15,360	506,547	\$444,690	467,208	.....	18,781	20,558	.....	463,395	491	169	660	.....



*Saline County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Davenport Coal Co.....	Ledford .....	109,126	2,356	.....	1,175	1,025
2	Gas Coal Co., White Ash.....	Harrisburg.....	45,000	20,000	.....	10,000	15,000
3	Clifton Coal Co., Clifton.....	Ledford .....	11,553	19,053	.....	11,425	15,408
4	Galatia Coal Co. ....	Galatia .....	1,300	13,300	3,000	.....	12,000
5	Eldorado Coal & Coke Co. No. 1..	Eldorado.....	16,901	1,276	152	906	843
Totals .....			183,880	55,985	3,152	23,506	44,271
LOCAL MINES.							
1	Diamond Coal Co.....	Harrisburg ....	6,687	.....	.....	.....	.....
2	Willis Henson .....	do .....	160	.....	.....	.....	.....
3	Job S. Ingram .....	do .....	1,000	.....	.....	.....	.....
4	S. J. Moore .....	Cottage Grove ..	120	.....	.....	.....	.....
Totals .....			7,967	.....	.....	.....	.....
Totals—9 mines.....			191,847	55,985	3,152	23,506	44,271

Mines reported for 1904—17.

Abandoned mines—8.

Mines in 1905—9.

*Saline County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or Waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
.....	113,682	\$94,951	96,442	15,740	325	1,175	265	113,682	60	27	87	1
5,000	95,000	82,750	90,000	.....	.....	5,000	192	95,000	80	52	132	2
2,101	59,535	56,491	57,434	.....	.....	2,101	152	59,535	50	28	78	3
1,400	31,000	22,085	25,000	643	4,277	1,080	180	31,000	35	19	54	4
.....	20,078	18,393	15,373	.....	3,505	1,200	223	20,078	26	19	45	5
8,501	319,295	\$274,670	284,249	16,383	8,107	10,556	202	319,295	251	145	396	
.....	6,687	\$5,684	.....	.....	6,687	.....	100	6,687	10	3	13	1
.....	160	200	.....	.....	160	.....	30	160	2	1	3	2
.....	1,000	1,500	.....	.....	1,000	.....	100	1,000	4	1	5	3
.....	120	120	.....	.....	120	.....	30	120	1	.....	1	4
.....	7,967	\$7,504	.....	.....	7,967	.....	65	7,967	17	5	22	
8,501	327,262	\$282,174	284,249	16,383	16,074	10,556	.....	327,262	268	82	418	

*Washington County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or Screenings.
SHIPPING MINES.							
1	Gallatin Coal & Coke Co .....	Nashville .....	38,917	11,625		680	1,212
2	Adam Kuhn* .....	DuBois .....		18,500		2,750	2,750
	Totals, 2 mines .....	.....	38,917	30,125		3,430	3,962

\*New mine.  
 Mines reported for 1904, 1.  
 New mines, 1.  
 Mines in 1905, 2.

*White County—Seventh District—1905.*

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
LOCAL MINE.							
1	Norris City Coal Co*.....	Norris City ...	1,000.....	.....	.....	.....	.....

\*New mine.  
 Mines reported for 1904, none.  
 New mines, 1.  
 Mines in 1905, 1.

*Washington County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
1,881	54,315	\$53,963	582	38,230	13,622	1,881	200	54,315	42	18	60	1
.....	24,000	21,800	16,000	.....	7,500	500	150	24,000	50	16	66	2
1,881	78,315	\$75,763	16,582	38,230	21,122	2,331	175	78,315	92	34	126	

*White County—Seventh District—Concluded.*

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYEES.			Number.
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employees.	Total.	
.....	1,000	\$1,500	.....	.....	700	300	90	1,000	5	9	14	1

## Williamson County—Seventh District—1905.

Number.	NAME OF OPERATOR.	Postoffice address of mine.	OUTPUT OF MINE—				
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.
SHIPPING MINES.							
1	Big Muddy Coal & Iron Co., No. 7	Herrin	69,291	124,212	16,196	216,277	16,376
2	Chi. & Carterville Coal Co., No. 1	do	8,979	117,675	37,678	174,927	54,374
3	Sunnyside Coal Co., No. 1	do		137,106	22,477	180,229	1,787
4	Peabody Coal Co., No. 3	Marion	12,353	65,339	66,179	44,530	102,699
5	St. Louis & B. M. Coal Co., Dawes	Dewmaine	23,621	58,017	35,860		122,145
6	Chicago-Herrin Coal Co.	Herrin	2,166	90,998	14,572	832	75,260
7	Western Coal Mining Co., Bush	Bush	107,646		29,389		37,657
8	Chi. & Big M. C. & C. Co., No. 1	Marion	166,262				
9	Peabody Coal Co., No. 2	do	3,275	47,494	22,698	24,718	58,053
10	Carterville District Coal Co., No. 6	do	101,674	8,700	7,100	10,462	13,131
11	Williamson County Coal Co.	Johnson City	89,676	5,457	3,345	2,560	8,524
12	Big Muddy Coal & Iron Co., No. 8*	Clifford	58,416	21,591	44	13,297	11,643
13	Johnson City & B. M. C. & M. Co.	Johnson City	10,874	19,643	15,069	19,471	34,790
14	Carterville Coal Co., A	Carterville		14,463	21,693	24,003	20,688
15	Carterville Coal Co., B	do		24,614	17,013		44,735
16	Donaly-Koenneck Coal Co., D. R.	do	921	41,230	8,277	1,681	28,805
17	Carterville Coal Co., C*	do		15,783	18,644	22,406	19,789
18	New Virginia Coal Co.	Johnson City	80,000				
19	New Ohio Washed Coal Co., No. 1	Carterville		12,667	15,354	48,748	
20	Robert Dick Coal Co.	Cambria		18,967	10,000		40,000
21	Carterville Mining Co.	Herrin	679	11,795	11,870		43,049
22	Carterville & B. M. Coal Co., No. 1	Cambria	7,399	12,299	15,223		28,038
23	Watson Coal Co.	Herrin	2,000	8,000	12,000		20,000
24	Chicago-Marion C. Co., White Ash	Marion	35,442	665	521	1,224	1,223
25	Carterville & Herrin Coal Co., No. 1	Herrin	5,686	5,894	7,950	2,130	19,450
26	St. Louis-C. C. Co., Walnut Ridge	do	6,704	2,638	4,291		6,179
27	Colp Coal Co., Colp Mine*	Carterville	8,517	2,650	1,000		2,815
28	M. Hampton	do	3,427	811	1,063	427	265
Totals			805,013	868,708	415,506	787,922	811,475
LOCAL MINES.							
1	John R. Young	Carterville	3,377				
2	E. E. Ensinger	Crab Orchard	1,340				
3	Rice & Craine	Carterville	1,050				
4	T. M. Motsinger	Crab Orchard	720				
5	Thos. Parritt	Carterville	480				
6	Carterville Diamond Mining Co.	do	330				
7	W. S. Tarpley	Crab Orchard	220				
8	T. H. Henson & Sons	Marion	110				
Totals			7,617				
Totals—36 mines			812,630	868,708	415,506	787,922	811,475

\* New mine.

Mines in 1904, 37.

New mines, 3.

Mines abandoned, 4.

Mines reported for 1905, 36.

## Williamson County—Seventh District—Concluded.

IN TONS.		Aggregate value of total product.	DISPOSITION OF OUTPUT.				Days of active operation.	Tons mined by hand.	EMPLOYES.		
Slack or waste.	Total.		Tons loaded on cars for shipment.	Tons supplied to locomotives at the mine.	Tons sold to local trade.	Tons consumed or wasted at the mine.			Average number of miners.	All other employes.	Total Number.
4,985	447,287	\$425,117	427,555	465	2,781	16,486	262	447,287	290	95	355 1
8,455	402,088	386,997	380,503		4,812	17,273	254	402,088	237	101	338 2
29,626	371,225	354,132	341,399		1,825	27,801	239	371,225	227	116	343 3
28,443	319,548	297,135	227,234			92,294	222	319,548	152,262	143	82 225 4
	239,648	231,170	228,288	1,960	1,155	8,250	245	239,648	225	114	339 5
2,920	186,748	152,440	181,364		2,464	2,920	230	186,748	125	60	185 6
	174,692	149,654	169,824		1,011	3,857	281	174,692	218	101	319 7
	166,262	166,262	162,989		121	3,202	194	164,747	140	65	205 8
7,976	164,214	143,643	156,826			7,388	176	73,492	118	71	189 9
	141,067	123,980	139,242			1,825	254		85	64	149 10
	109,562	94,327	102,000		3,000	4,562	265	109,562	160	67	227 11
2,870	107,851	101,479	100,580		2,869	4,412	233		1,051	61	47 108 12
3,180	103,027	85,164	100,027			3,000	150	103,027	95	35	130 13
19,584	100,431	72,698	97,418		650	2,363	268	100,431	87	60	147 14
	86,362	68,157	82,993			3,369	234	86,362	45	38	83 15
3,650	84,564	85,755	80,564		350	3,650	157	84,564	90	36	126 16
5,152	81,774	68,137	80,414			1,360	274	81,774	60	24	84 17
	80,000	64,000	80,000				224	80,000	65	56	121 18
	76,789	76,232	72,522		300	3,947	290	76,789	85	33	118 19
	68,967	59,709	62,740		3,227	3,000	176	68,967	75	28	103 20
254	67,647	50,559	66,359	10	175	1,103	229	67,647	75	16	91 21
	62,959	53,952	61,934		255	770	182	62,959	60	20	80 22
	42,000	34,540	41,000	800	100	100	110	42,000	20	6	26 23
2,190	41,265	35,611	39,075			2,190	178	41,265	50	20	70 24
	41,110	31,959	39,715		201	1,194	240	41,110	38	15	53 25
	19,812	16,413	18,507	634	167	504	216	19,812	29	12	41 26
	14,982	13,144	13,182			1,800	99	14,982	36	14	50 27
275	6,268	6,536	3,427			2,841	312	6,268	2	3	5 28
119,510	3,808,134	\$3,448,950	3,557,851	3,859	24,963	221,461	219	3,808,134	2,911	1,399	4,310
	3,377	\$5,066			3,377		150	3,377	3	2	5 1
	1,340				1,340		108	1,340	4		4 2
	1,050	1,575			1,050		97	1,050	5		5 3
	720				720		100	720	3		3 4
	480	600			480			480	1	1	2 5
	320	368			320		90	320	2		2 6
	220				220		120	220	2		2 7
	110	110			110		40	110	2	2	4 8
	7,617	\$9,999			7,617		101	7,617	22	5	27
119,510	3,815,751	\$3,458,949	3,557,851	3,859	32,580	221,461		3,808,351	2,933	1,404	4,337

*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Franklin .....	3	136,788	90,578	6,502	3,560	5,163	30,965	.....	\$ 121,831
Gallatin .....	2	73,529	.....	34,727	5,964	14,930	14,123	3,765	68,132
Jackson .....	9	793,890	44,563	327,051	100,966	58,055	205,963	57,292	889,062
Perry .....	22	1,253,206	398,596	447,718	90,694	37,159	256,061	22,960	1,065,390
Randolph .....	10	496,812	281,838	163,913	.....	3,426	34,275	15,360	435,961
Saline .....	5	319,295	183,880	55,965	3,152	23,506	44,271	8,501	274,670
Washington .....	2	78,315	38,917	30,125	.....	3,430	3,962	1,881	75,763
Williamson .....	28	3,806,134	805,013	868,706	415,506	787,922	811,475	119,510	3,448,950
Totals and averages .....	81	6,961,971	1,843,385	1,934,729	619,862	933,591	1,401,135	229,269	\$6,299,729

*Seventh District—1905—Shipping Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.				Average number of days in operation.	Tons mined by hand.	Tons mined by machine.	PRICES PAID PER TON FOR—	
Number of miners.	All other employes.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mine.				Hand mining.	Machine mining.
118	295	413	122,741	.....	2,097	11,950	202	26,565	110,223	\$0.45	\$0.2114
99	42	141	55,561	2,186	9,678	6,104	180	73,529	.....	0.48	.....
778	505	1,283	631,829	63,626	10,296	88,139	193	327,660	466,230	0.4815	0.4288
1,548	574	2,122	1,056,095	142,131	26,249	28,733	192	1,137,600	115,608	0.4998	0.45
482	166	648	467,208	.....	12,001	19,603	198	455,660	43,152	0.52	0.45
251	145	396	284,249	16,383	8,107	10,556	202	319,295	.....	0.48	.....
92	34	126	16,582	38,230	21,122	2,381	175	78,315	.....	0.4985	.....
2,911	1,899	4,810	3,557,851	3,859	24,963	221,461	219	3,300,734	507,400	0.45	0.38
6,279	3,160	9,439	6,192,116	266,415	114,513	388,927	208	5,719,358	1,242,613	\$0.4699	\$0.3923



*Recapitulation by Counties—*

COUNTIES.	Number of shipping mines.	Total tons produced.	PRODUCTION OF DIFFERENT GRADES IN TONS.						Aggregate value of total product.
			Mine run.	Lump.	Egg.	Nut.	Pea or screenings.	Slack or waste.	
Gallatin.....	4	3,100	3,100						\$ 4,313
Hamilton.....	1	200	200						250
Jackson.....	11	8,211	8,211						11,522
Jefferson.....	3	30,236	30,236						32,122
Johnson.....	2	2,400	2,400						3,300
Perry.....	4	14,510	15,510						26,507
Randolph.....	2	7,735	2,960	3,820			955		8,929
Saline.....	4	7,967	7,967						7,504
White.....	1	1,000	1,000						1,500
Williamson.....	8	7,617	7,617						9,999
Totals and averages.....	40	83,976	79,201	3,820			955		\$105,946
Totals, district— all mines.....	121	7,045,947	1,922,586	1,938,549	619,862	933,591	1,402,090	229,269	\$6,405,675

Total number of mines reported for 1904, 120.

Number of new mines, 17.

Number of mines abandoned, 16.

Number of mines in 1905, 121.

*Seventh District—1905—Local Mines.*

EMPLOYEES.			DISPOSITION OF OUTPUT.						PRICES PAID PER TON FOR—	
Number of miners.	All other employés.	Total.	Tons loaded on cars for shipment.	Tons supplied to locomotives at mine.	Tons sold to local trade.	Tons consumed and wasted at mines.	Average number of days in operation.	Tons mined by hand.	Tons mined by machine.	
13	5	18	.....	.....	3,100	.....	110	3,100	.....	\$0.6956
2	.....	2	.....	.....	200	.....	20	200	.....	0.75
31	9	40	.....	.....	8,211	.....	145	8,211	.....	0.7439
39	16	55	.....	.....	30,238	.....	126	30,238	.....	0.53
4	1	5	.....	.....	2,400	.....	175	2,400	.....	0.625
21	8	29	.....	.....	15,510	.....	207	15,510	.....	0.4821
9	3	12	.....	.....	6,780	955	.....	7,735	.....	0.5664
17	5	22	.....	.....	7,967	.....	65	7,937	.....	0.533
5	9	14	.....	.....	700	300	90	1,000	.....	0.53
22	5	27	.....	.....	7,617	.....	101	7,617	.....	0.4967
163	61	224	.....	.....	82,721	1,255	129	83,976	.....	\$0.5499
6,442	3,221	9,663	6,192,116	266,415	197,234	390,182	.....	5,803,334	.....	.....



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# APPENDIX

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REGISTER OF CERTIFICATED—  
MINE MANAGERS.  
HOISTING ENGINEERS.  
MINE EXAMINERS.

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Illinois Free Employment Offices  
SEVENTH ANNUAL REPORT.

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## MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—This list includes all the mine managers to whom certificates have been issued prior to Jan. 1, 1906.

The names which are printed in *italic* are those who hold both certificates of service and subsequent certificates of competency acquired through examination.

The names which are followed by the abbreviation "ex." are those who have exchanged certificates of service for those of competency, without examination, under the provisions of the amendment of 1895. Names followed by the letter "d" are deceased.

The postoffice addresses here given, and in all the lists following, are those recorded at the time the certificates were issued, and in many cases are not the present addresses of the certificate holders.

Name.	Postoffice.	Name.	Postoffice.
<i>Adams, Charles I</i> .....	Rosboro .....	Bailey, Joseph .....	Duquoin .....
Adams, J. M. ....	Wanlock .....	Ball, Edward .....	Bartonville .....
Adams, Horace L. ....	Staunton .....	Barlow, Henry .....	Coffeen .....
Ainsworth, Samuel, (d) .....	Taylorville .....	Barlow, John W. ....	Johnson City .....
Ainsworth, Samuel, Jr. ....	Taylorville .....	Barnes, James .....	Braidwood .....
Ainsworth, Thomas .....	Taylorville .....	Barnett, Oliver .....	Bryant .....
Aitken, James .....	Streator .....	Barratt, John C. ....	Duquoin .....
Alexander, J. ....	Collinsville .....	Barron, James, ex. ....	Cantrall .....
Allen, Fred .....	Staunton .....	Barrowman, James .....	Braidwood .....
Allen, David T. ....	LaSalle .....	Bartlett, Thomas, ex. ....	Cuba .....
<i>Amberger, Joseph</i> .....	Moweaqua .....	<i>Bashong, Andrew</i> .....	Danville .....
Anderson, W. C. ....	Elmwood .....	<i>Barwell, John</i> .....	Marrissa .....
Anderson, George .....	Streator .....	<i>Bates, W. H.</i> .....	Winchester .....
Anderson, James .....	Ladd .....	Bates, R. D. ....	Winchester .....
Anderson, James C. ....	Streator .....	Bauder, Fred .....	Herrin .....
Anderson, John M. ....	Streator .....	Baumer, Fred .....	Marquette .....
<i>Andreas, Aug.</i> .....	Belleville .....	Baxter, Valentine .....	Clyde .....
<i>Angel, Hiram</i> .....	Belleville .....	Baxter, William, (d) .....	Ladd .....
Angell, Charles .....	Belleville .....	Beaghan, Peter .....	Cantrall .....
Applett, William R. ....	Springfield .....	<i>Beattie, Richard</i> .....	Murphysboro .....
Appleby, John E. ....	Peoria .....	Beattie, John .....	Danville .....
Argyle, Joseph .....	Coal City .....	Beatty, James .....	Mascoutah .....
Atkinson, Edward .....	Streator .....	Beatty, James H. ....	Mascoutah .....
<i>Atkinson, E. Lee</i> .....	Streator .....	Beatty, Nephi .....	Mascoutah .....
Atkinson, J. G. ....	Pekin .....	Becker, Henry .....	Peoria .....
Atkinson, William, (d) .....	Murphysboro .....	Becker, Peter .....	Petersburg .....
Atkinson, William .....	Braceville .....	Becker, F. W. ....	Pinckneyville .....
Armstrong, Thomas J. ....	Spring Valley .....	Becker, Charles .....	Staunton .....
Armstrong, William C. ....	Marion .....	Beese, Charles A. ....	Belleville .....
Archer, John .....	Barclay .....	Beese, John .....	Birkner .....
Ash, T. G. ....	Girard .....	Beharrelle, Fred .....	Orchard Mines .....
Aston, Huber, ex. ....	Fairmount .....	Bell, Richard .....	Gillespie .....
Archibald, David .....	Freeburg .....	Bell, William .....	Streator .....
Ax, John .....	Edwardsville .....	Belger, John .....	Nilwood .....
<i>Axford, Thomas</i> .....	Petersburg .....	Beltz, Andrew .....	Harrisburg .....
		Bengston, John A., ex. ....	Galva .....
		Bennett, James .....	Odin .....
Baker, Gustav .....	Streator .....	Bennett, John .....	Centralia .....
<i>Baker, Samuel G.</i> .....	Auburn .....	Berkstresser, W. A. ....	Duquoin .....
Back, Thomas .....	Mapleton .....	Berry, Jessiar .....	Greenville .....
Bailey, William .....	Athens .....	Betts, Joseph E. ....	Belleville .....

## Certificates of Competency—Continued.

Name.	Postoffice.	Name	Postoffice.
<i>Betz, Charles C.</i>	Duquoin	Caarylon, J.	Oglesby
Bevard, John J.	Kinmundy	<i>Casey, James F.</i>	Selbytown
Bevard, F. C.	Carterville	Catheart, Matthew, ex.	Tilden
Beveridge, David.	Sorento	Center, George H.	Hallidayboro
Beggs, Samuel, ex.	Clark City	Chalderton, John	Lenz Station
Biebel, Henry, ex.	Rentchler	<i>Chambers, William</i>	Spaulding
Biggins, James	Sorento	Charnock, James	Decatur
Bingham, Robert.	O'Fallon	<i>Charlton, George R.</i>	Greenview
Bird, George W.	Coffeen	Cherry, John T.	Seatonville
Birtin, Henry	Pana	Cherry, James	Seatonville
Hirtley, William P.	Springfield	Cherry, W. S.	Streator
Blair, Gus	Murphysboro	Chere, George	Pleasant Plains
Blair, Herbert	Divernon	Checkin, David	Reed City
Blackenship, Wm F.	East Peoria	Chivers, Joseph	Braceville
<i>Blenkinsopp, Thos. N.</i>	Cable	<i>Chonolly, Terrance J.</i>	Assumption
Boettcher, F. J.	Athens	<i>Christie, David</i>	Murphysboro
Boston, G. W.	Murphysboro	Church, Henry M.	Marissa
Boston, James	Duquoin	Clark, Martin	Decatur
Bottomly, Edward	Oglesby	<i>Clark, Edward</i>	Decatur
Bottomly, John	Oglesby	Clark, Quinton	Braidwood
Bowen, M. I.	Staunton	Clark, Thomas	Decatur
Bowers, Robert	Wenona	Clark, John	Decatur
Howle, James	Braidwood	Clayton, Frank	Troy
Bowie, George	Braidwood	Clelland, Robert	Braidwood
Boyer, J. A.	Fairmount	Clifford, Michael J.	Kewanee
<i>Bracken, James A.</i>	Greenview	Coar, Firman	Worden
Bradenberger, F.	Belleville	<i>Collier, Frank J.</i>	Bartonville
Brennan, John I.	Virden	Collins, Richard J., ex.	O'Fallon
Brennan, Patrick	Toluca	Combs, James W.	Kewanee
<i>Brennan, George</i>	Belleville	<i>Comford, L.</i>	Cantrall
Bressmen, William	Springfield	Condis, Malcomb	Spring Valley
Brockhouse, Samuel	Caeyville	Conity, Patrick	Duquoin
Brigham, William	Marissa	<i>Cooper, Charles</i>	Nilwood
Brooks, Peter (d.)	Taylorville	Cook, Robinson	Riverton
Browitt, Andrew	Bush	Cook, William	Peoria
<i>Brown, Andrew</i>	Braidwood	Condon, Charles H.	Hanna City
Brown, John	Glen Carbon	Connors, William	Toluca
Brown, Thos. Manhall	Pinckneyville	Connell, Nicol E.	Peoria
Brown, William J.	Coal City	Conrad, William	Springfield
Brown, William F.	Pontiac	Costello, Henry	Pana
Brown, James B.	Murphysboro	<i>Castor, George</i>	Grape Creek
Brown, F. M.	Farmington	Corrigan, James	Marseilles
Brown, Leslie	Peoria	Courtney, James D.	Westville
Browning, J. M.	Duquoin	Cowell, William	Assumption
Brueckner, Emil	Staunton	Cox, Eugene	Centralia
Brueggeman, George	Belleville	Craine, John E.	Murphysboro
Bulmer, John, ex.	St. John	Craine, B. S.	Murphysboro
Bulmer, Benjamin	Muddy Valley	Crampton, Edward	Murphysboro
Burdy, John	Streator	Crauch, J. E.	Virden
Burdett, J. P.	Colchester	Crankshaw, Thomas	Decatur
Burris, Wm. S.	Gillespie	Crankshaw, William	Decatur
<i>Bushong, Frank O.</i>	Catin	Chrichton, Dawson	Taylorville
Butzke, Frank	Springfield	Crighton, Robert	Chenoa
Burke, George, ex.	Peru	Crowder, Richard A.	Moccasin
Burkhardt, John B.	Mt Olive	Cruickshanks, John	Farmington
		Cruickshanks, Walter E.	East Peoria
		Cruickshanks, William	Middle Grove
Callear, Isaac	Pottstown	Cryer, James T.	Spring Valley
Cameron, David J.	Pana	Cumming, Ambrose B.	Sparland
Cameron, D. S., ex.	Sorento	Cumming, James P.	Sparland
Campbell, William	Sandoval	Cumming, John P.	Braceville
Campbell, Edward	Greenview	Cumming, Thomas S.	Gardner
Campbell, Frank J.	Athens	Cumming, D. H.	Gardner
Campbell, Thos. N. (d.)	Pinckneyville	Cunningham, Thomas	Girard
Campbell, H. J.	Assumption	Cunningham, Cormick	Springfield
Campbell, R. W.	Decatur	Currie, Adam	LaSalle
Cantfield, R. A.	Madisonville, Ky.		
<i>Cannon, John</i>	Marquette		
Cardwell, Elliott	O'Fallon	Daenzer, Anton	Belleville
Carroll, A. W.	Gillespie	Dale, Henry	Murphysboro
Carlson, Andrew	Colfax	<i>Dale, John</i>	Fredonia
Carson, J. H.	O'Fallon	Daniels, James	Belleville
Carson, Chas. W.	Wolcott	Daniels, Samuel	Belleville
Carter, Charles	Birkner	Daniels, Alexander	Henry
Carter, George	Birkner	Danny, William	Lincoln
Cartledge, Oscar	Gillespie	<i>Davis, Calif.</i>	Collinsville
Carroll, John (d.)	O'Fallon	Davis, J. H.	Cuba

## Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
Davis, Thomas	Dunfermline	Evans, William H.	Harrisburg
Davis, Thomas M.	Virden	Evans, John O., Jr.	Caseyville
Davis, P. J.	Percy		
Davis, William	Litchfield	Fagan, Michael	Spring Valley
Davis, Kees P.	Springfield	Fagan, Patrick T., (d)	Decatur
Davis, William H.	Streator	Fairbairn, Thomas	Streator
Davidson, M.	Duquoin	Fairlie, James	Gilchrist
Davidson, James	Sparta	Falcetti, John B.	Glen Carbon
Davidson, Forest	Sandoval	Farnsworth, Lawrence, ex	Barclay
Davenport, John	Harrisburg	Farnsworth, Thomas J.	Spaulding
Dawkins, William E.	Belleville	Felker, John	Danville
Dawson, Daniel	Campbell Hill	Fellows, Edward	Streator
Dawson, Richard	Athens	Ferguson, John	Reed City
Deans, Henry	Percy	Ferguson, Walter	Braidwood
Deaton, Abraham I.	Middletown	Ferguson, William	Duquoin
Deeney, George H.	Farmington	Ficker, A. W.	Worden
Denny, John L.	Springfield	Finck, M. M.	Pana
Denny, Lawrence	Springfield	Fisher, Stephen	Gillespie
Devlin, Henry	Toluca	Flavel, Jonah	Duquoin
Devlin, Thomas H.	Spring Valley	Fleming, James	Decatur
Diamond, Peter	Duquoin	Fleming, Jacob	Kewanee
Dick, Robert	Duquoin	Fletcher, John	La Salle
Dickerson, James E.	Belleville	Fletcher, John J.	Collinsville
Dickerson, J. L.	Danville	Fletcher, T. C.	Collinsville
Dickinson, Wm. T.	Athens	Fletcher, William	Collinsville
Dodd, William, (d)	Cable	Flood, John	Spring Valley
Dodge, H. N.	St. David	Foley, George, ex	LaSalle
Donahoe, James	Cartersville	Foley, W. E.	Mapleton
Donaldson, William	Kangley	Foley, Arthur C.	Auburn
Donaldson, James W.	Peoria	Forsythe, Peter	Centralia
Donaldson, John A.	Himrod	Forsythe, Robert	Murphysboro
Donnelly, James	Cartersville	Foster, William	Lincoln
Dooley, Harry	Springfield	Foster, James	Marion
Doerner, P. J.	Glenburn	Fohl, Bernard, ex	Belleville
Donnelly, P. H.	Chicago	Francis, T. L.	Braidwood
Donnelly, Henry	Braidwood	Frazee, William H.	Danville
Doughty, James	Danville	Franklin, Bernard	Lincoln
Dougherty, Daniel	Virginia	Frew, Archibald	Moweaqua
Dowell, Thomas	Muddy Valley	Freer, James	Peoria
Downing, Timothy	Briar Bluff	Fremgen, Casper	Edwardsville
Drake, George	Streator	Friska, Jan	Edwardsville
Ducas, J.	Grape Creek	Fritz, William, ex	Breese
Duddy, John	Pana		
Dudek, John	Kinmundy	Gaffigan, Michael	Petersburg
Duffner, J. W.	Belleville	Gaffigan, Patrick J.	Springfield
Duncan, Chas.	Streator	Gailbraith, George	Tamaroa
Dunn, James	Collinsville	Garrity, John	Riverton
Dunnigan, Virgil B.	Virden	Gaul, Henry J.	Ridge Prairie
Dunnigan, Oscar	Virden	Gavin, Barney	Springfield
Dunham, John F.	Springfield	Geisler, Ernest	Golden Eagle
Dunlop, John	Odin	Gell, Philip	Gilchrist
Durkin, Michael	Sunfield	Gibson, Michael	Spring Valley
		Gilbert, Edward	Niantic
Earl, William	Braidwood	Gile, William	Gillespie
Eaton, A. C.	Zeigler	Gilchrist, John W.	Gilchrist
Eccles, John	Salem	Gilchrist, H. M.	Gilchrist
Edwards, S. E.	Centralia	Glass, William H.	Pana
Edwards, Thomas	Springfield	Gluck, Leo	Spring Valley
Edmunds, Morgan	Mt. Olive	Goalby, John F.	Gillespie
Ehret, Frank A.	Wesley	Goddard, Benjamin B.	Duquoin
Eller, William	Breese	Goddard, William	Duquoin
Emery, Charles	Belleville	Goller, William	Cuba
Emery, Joseph	Streator	Golden, George	Springfield
English, Thomas	Belleville	Golden, William D.	Springfield
Erwin, William	Soperville	Gorsuch, R. H.	Springfield
Essex, George W.	Hallidayboro	Goordall, George	Assumption
Eubanks, Edward	Lincoln	Goodwin, Robert A.	Pontiac
Evans, George	Glassford	Gordon, Ephraim G.	Wanlock
Evans, Edward J.	Harrisburg	Grabuck, Emil T.	Staunton
Evans, Harry M.	LaSalle	Grabuck, R. H.	Staunton
Evans, John Nine, ex	O'Fallon	Graham, Hiram	Virden
Evans, John O., ex	Bissel	Graham, John W.	Dunfermline
Evans, John	Streator	Graham, Louis A.	Jacksonville
Evans, Albert F.	Norris	Graham, William	Virden
Evans, William		Graham, David L.	Springfield



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*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Johnston, William.....	Marion.....	Lawson, John.....	Cable
<i>Johnston, William</i> .....	Elmwood.....	Leach, John.....	Auburn.....
Jolly, Thomas F. (d).....	Collinsville.....	Ledford, Edward F.....	Harrisburg.....
Jones, Charles.....	Marissa.....	Lee, Robert.....	Cable
Jones, Thomas.....	Taylorville.....	Lee, Robert.....	Sherrard
<i>Jones, David</i> .....	Marissa.....	Lee, Shellcross (?).....	Canton.....
Jones, D. L.....	Taylorville.....	Lee, William J.....	Cable
Jones, John T.....	Lebanon.....	Legendre, Theodore.....	Mascoutah
Jones, Edward.....	Oglesby.....	Lehwold, Herman A.....	Springfield
Jones, Harry D.....	Riverton.....	Leming, W. C.....	Duquoin
Jones, John H.....	Duquoin.....	Lettsome, Wm.....	Carbon Hill
Jones, Logan.....	Marissa.....	Lettsome, Absalom.....	Carbon Hill.....
Jones, Robt. R.....	Oglesby.....	Lewis, Charles F.....	Sparta.....
Jones, T. L.....	Ladd.....	Lewis, James.....	Bryant
Jones, William.....	Marissa.....	Lewis, William.....	Streator
Jones, William E.....	Sheffield.....	Lindley, Richard.....	Collinsville.....
Jones, William E.....	Wesley City.....	Lindsay, John O.....	Duquoin
Jones, William M.....	Tamaroa.....	Lindsay, Robert.....	Springfield
<i>Jones, David W.</i> .....	Auburn.....	Linsky, P. J.....	Braidwood
Jordan, Robert (d).....	Streator.....	Lister, James H.....	Peters Station.....
		Little, Peter.....	Peoria.....
		Little, Thomas.....	Summerfield.....
		<i>Lively, Robert</i> .....	Marissa
Kahle, Joseph.....	Coulterville.....	Lloyd, Davis J.....	Edinburg.....
Kane, Charles H.....	Dunfermline.....	Lloyd, Rowland R.....	Barclay
Kane, John M.....	Springfield.....	Lloyd, John E.....	Danville
Kaney, John.....	Centralia.....	Lloyd, Thomas.....	Rentchler
Kay, John.....	Pawnee.....	Lloyd, Thomas.....	Wanlock
Kay, James.....	Sherrard.....	Loeffler, Anton.....	LaSalle
Karral, Charles.....	Westville.....	Lord, John S.....	Springfield.....
Karrall, Edgar (d).....	Braceville.....	Lord, Henry L.....	Virden
Kasher, Thomas.....	Braidwood.....	Love, William.....	Sherman
Keating, James A.....	Streator.....	Love John W.....	Carbon Hill.....
Keay, A. H. S.....	Seatonville.....	Lowery, Frank.....	Orchard Mines.....
Keay, John (d).....	Springfield.....	Lumaghi, Joseph.....	Collinsville
Keefe, Edward.....	Colfax.....	Lumaghi, Louis F.....	Collinsville
Keefer, William.....	Danville.....		
Kell, Matthew.....	Dnbois.....		
Kell, Peter.....	Dubois.....		
Kelley, Bernard.....	Litchfield.....	Macke, P. H.....	Ledford
Kelley, D. J.....	Carbon Hill.....	Malcolm, Wm. J.....	Braceville.....
Kelly, Frank S.....	Centralia.....	Malloy, Henry E. (d).....	Decaturn
Kelley, Joseph G., ex.....	Braidwood.....	Mallon, Harry.....	Springfield
Kelley, Robert D.....	Carbon Hill.....	Malone, Frank.....	Pinckneyville
Kelley, J. D., Sr.....	Carbon Hill.....	Maltby, Wm. (d).....	Braidwood
Kempper, Henry.....	Gillespie.....	Mann, Jacob.....	Mascoutah
Kenney, Thomas.....	Springfield.....	Marland, John Jr.....	Wenona
Kerr, John.....	Rushville.....	Marland, John, Sr., ex.....	Wenona
Kidd, Alexander.....	Oglesby.....	Marsh, Jas.....	Riverton
Kidd, Andrew.....	Oglesby.....	Martin, Chas.....	Middle Grove
Kidd, W.....	Ridge Prairie.....	Martin, Geo.....	Farmington
<i>Kidd, Eugene</i> .....	Ridge Prairie.....	Mason, Eli.....	Edinburg.....
Kienbush, David.....	Edwards Station.....	<i>Mason, Meyrick C.</i> .....	LaSalle
Killingsworth, C.....	Pinckneyville.....	<i>Mason, Mark, Jr.</i> .....	Sato
Kincaid, Lee.....	Athens.....	<i>Massey, Alfred N.</i> .....	Belleville
Kirby, James.....	Athens.....	Massie, John G.....	Marissa
Kirchner, Frank.....	Belleville.....	Matthews, W. S.....	Kinmundy
Kirkwood, Martin.....	Birkner.....	Maxwell, Angus.....	Carlinville
Klinginfus, Otto.....	Belleville.....	Maule, Alexander.....	Belleville
Klinginfus, Emil.....	Belleville.....	Mays, John F.....	Pana
Kloever, Jos.....	Pana.....	Medill, Duncan.....	Oglesby
Knapp, Charles.....	Seatonville.....	<i>Meehan, Patrick</i> .....	Breeds
Knies, Henry.....	Breese.....	<i>Meehan, Peter</i> .....	Williamsville
Kortkamp, Wm.....	Hillsboro.....	<i>Merkle, Benj.</i> .....	Sandoval
Kortkamp, Louis.....	Hillsboro.....	<i>Meyer, Bruno F.</i> .....	Staunton
<i>Kramer, Anthony F.</i> .....	Sato.....	Michaels, Theodore.....	Belleville
Krantz, Jacob.....	Belleville.....	Millard, John.....	Peoria
Kreppert, Wm.....	Springfield.....	Miller, Edward.....	Sorento
		Millburn, Thomas.....	Sandoval
		Middleton, Jas. L.....	Belleville
Lacour, August.....	Bartonville.....	<i>Michaels, Lewis</i> .....	Belleville
Laesser, Adolph.....	Belleville.....	Michaels, Otto L.....	Belleville
Lauder, Alexander.....	Cartersville.....	Miller, Alexander.....	Ridge Prairie
Launoe, Frank.....	Worden.....	Miller, Hugh.....	Coal City
Large, James M.....	Athens.....	<i>Miller, Wm.</i> .....	Lenzburg
Laws, J. M.....	Cuba.....	Miller, George W.....	Pawnee
Lawson, John.....	Mt. Olive.....	Miller, John K.....	Staunton
Lawson, Thomas.....	Lake Creek.....	<i>Miller, Frank R.</i> .....	Herrin

## Certificates of Competency—Continued.

Name.	Postoffice.	Name.	Postoffice.
<i>Milem, John</i> .....	Norris	McLean, Robert.....	Girard
<i>Millett, Thomas</i> .....	Collinsville	McManamon, Patrick F.	Spring Valley
Millhouse, John G.....	Spring Valley	McMorrow, Michael.....	Farmington
Mills, T. J.....	Cable	McMath, George.....	Cartersville
Mitchel, T. J.....	Pana	McMurtie, A. B.....	Bryden
Mize, Walter.....	Blue Mound	McWhinney, Andrew.....	Virden
Moffat, R. E.....	Percy	McMorrow, Thomas.....	Farmington
<i>Moffat, Thos.</i> .....	Percy	McNabb, Wm.....	Athens
<i>Monaghan, Edward</i> .....	Carbon Hill		
Monaghan, Wm.....	Braidwood	Neal, Reese.....	Kangley
Moore, Alexander J.....	Springfield	Neal, Albert N.....	Murphysboro
Moore, Samuel.....	Chicago	<i>Neal, Wm</i> .....	Murphysboro
Moreland, John Jr.....	Wenona	Needles, Thaddeus.....	Glenburn
Moran, Mark.....	Pekin	Neeson, Richard.....	Divernon
<i>Morin, Jeremiah</i> .....	Danville	Neil, Peter, ex.....	Bunker Hill
Morin, D. A.....	Danville	Newcomb, H. C.....	Pana
Morgan, Geo.....	Springfield	Newman, Henry T.....	Springfield
Morgan, Joseph.....	Streator	Newsam John.....	Kingston
Morgan, Isaac B.....	Laird	Newsam, Richard.....	Orchard Mines
Morris, G. W.....	Lebanon	Newsam, Richard, Jr.....	Kingston Mines
Morris, J. H.....	Nashville	Newsam, Thomas.....	Kingston Mines
Morris, James F.....	Springfield	Newsam, Thomas, Jr.....	Kingston Mines
Morris, P. K.....	Koanoke	Nesb't, Charles, ex.....	Millstadt
Morris, Wm. H.....	Belleville	Nevenor, John.....	Belleville
Morris, Jos.....	Nashville	Nevil, George W.....	Duquoin
Morris, Robert.....	Marion	Nicholson, George A.....	Cuba
Morrissey, Thomas.....	Lebanon	<i>Nicholson, Wm</i> .....	Cuba
Morrison, D. H.....	Girard	Nixon, Robert.....	Virden
Morton, Andrew.....	Virginia	Noll, Peter.....	Belleville
<i>Morton, Robert</i> .....	Virginia	Nold, Fred.....	Freeburg
Moses, John L.....	Marion	Nordeen, Peter.....	Galva
<i>Moses, Tom</i> .....	Westville	Nordness, C. K.....	Girard
Moss, Thomas.....	Stannorton	Notman, George.....	Streator
Mould, Thomas R.....	O'Fallon		
Mountjoy, John Hy.....	Wenona	O'Beirne, John.....	Spring Valley
Murdock, John.....	Breeds	O'Brien, John W.....	Toluca
Muir, Hunter.....	Etherly	O'Brien, John J.....	Marquette
Munster, Anton.....	Westville	O'Brien, James.....	Belleville
Munts, Jabez.....	Streator	O'Brine, Patrick, J.....	Spring Valley
Muntz, Wm.....	Chatham	O'Brine, Wm.....	Pana
Murphy, Jerry.....	Braidwood	O'Connor, James.....	Spring Valley
<i>Murphy, John</i> .....	Springfield	O'Connor, John.....	Braidwood
Murray, Patrick.....	Nashville	O'Connor, Patrick F.....	Paisley
Murray, A.....	Sparta	O'Leary, John.....	Marquette
Murray, Hugh.....	Galva	Olroyd, Peter.....	Westville
Murray, James W.....	Westville	<i>O'Neil, John</i> .....	Germantown
Murray, J. H.....	Galva	Opie, Wm.....	Sandoval
Murrie, Archibald.....	Centralia	Owen, Wm.....	Tallula
Mustard, Geo.....	Norris	Owens, Robert.....	Marion
McAllister, Hector.....	Streator		
McAnarney, James.....	Girard	Parker, Albert.....	Collinsville
McCann, Patrick.....	Lincoln	Parker, Joe.....	S. Wilmington
McCleary, John.....	Cantrall	<i>Passent, Joseph T.</i> .....	Springfield
<i>McCleary, Jas</i> .....	Kangley	Passent, Wm. C.....	Harclay
McClintock, John.....	Murphysboro	Patchet, John.....	Murphysboro
McCraner, Jas.....	Girard	<i>Patterson, J. C</i> .....	Assumption
McCriddle, David.....	Oglesby	Patton, George A.....	Belleville
McCullough, W. F.....	Mapleton	Payne, Harvey.....	Riverton
McDill, Jas.....	Pana	<i>Pearl, John</i> .....	Braidwood
McDonald, Archibald.....	Westville	Penwell, C. T.....	Pana
McDonald, Robert.....	Streator	Percell, Thomas.....	Norris
McDonald, Wm.....	Braidwood	Peters, J. D.....	Murphysboro
McFadden, Joseph.....	Danville	Pettier, Moses.....	Spring Valley
McFarland, Wm. A.....	Edwardsville	Pettigrew, Robert.....	Troy
McGeachen, Robert.....	Sorento	Phillips, James.....	Minonk
McGinnis, John.....	Springfield	Pick, Edward.....	Centralia
McGunnigal, John.....	Murphysboro	<i>Pickett, Joseph</i> .....	Spring Valley
McGunnigal, James.....	Marissa	<i>Pickett, Robert</i> .....	Spring Valley
<i>McGunnigal, Bernard</i> .....	Spring Valley	Picton, Joseph.....	St. David
McKean, Isaac.....	Coal City	Picton, John W.....	Farmington
McKeown, Frank.....	Decatur	Pierson, Robert.....	Harrisburg
<i>McKernan, Jas</i> .....	Collinsville	Pierce, William.....	Edinburg
McLearn, Archibald.....	Collinsville	Poelker, Joseph.....	Germantown
McLaughlin, Patrick.....	Selbytown	<i>rdgar E</i> .....	Murphysboro
McLaughlin, Wm.....	Auburn	<i>orge</i> .....	Mapleton
McLaughlin, Wm.....	Ava		
McLaughlin, John.....	Girard		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Postle, John.....	Braceville.....	Rookin, Thomas.....	Edwards Station.....
Powell, Albert, E.....	Belleville.....	Ross, David.....	Oglesby.....
Powell, Evan.....	Murphysboro.....	Rosbottom, James.....	Kingston Mines.....
Powell, David, ex.....	Braceville.....	Rowland, Charles, ex.....	Belleville.....
Powell, J. E.....	Sato.....	Rundle, John C.....	Colchester.....
Powell, Thomas H.....	Belleville.....	Rundle, William.....	Pekin.....
Powell, Samuel.....	Roanoke.....	Rutledge, Walton.....	Alton.....
Price, Fred W.....	Centralia.....	Rutledge, J. J.....	Staunton.....
Price, William.....	Braceville.....	Ryan, James (d).....	Springfield.....
Prince, Thomas.....	Gillespie.....	Ryan, Thomas.....	N. Springfield.....
Proctor, Michael J.....	Indiana.....		
Proctor, Peter.....	Braidwood.....		
Prudent, Edward.....	Centralia.....	Sangrelet, Marshall.....	Mt. Olive.....
Pryce, John M.....	Coal Valley.....	Sanders, John M.....	Hanna City.....
Pugh, Daniel.....	St. John.....	Sandson, Henry S., ex.....	Streator.....
Pullen, Charles.....	Litchfield.....	Sauer, Frederick.....	Belleville.....
Pullen, James.....	Sorento.....	Saura, Cornelius.....	Peoria.....
Pye, William.....	Bartonville.....	Scafe, William.....	Coal City.....
		Schroll, Joseph.....	Bartonville.....
		Schram, Richard.....	Belleville.....
		Schreier, Gustav.....	Divernon.....
Raby, Robert A.....	Cuba.....	Scheidel, John.....	Bartonville.....
Radford, Thomas, ex.....	Bloomington.....	Schellschmidt, Ernst.....	East Peoria.....
Radford, William.....	Cuba.....	Scott, George.....	Marissa.....
Radford, James D.....	Springfield.....	Scully, William J.....	Glen Carbon.....
Radford, William T.....	Bloomington.....	Scurrah, Castling R.....	Braceville.....
Rae, Robert.....	Braidwood.....	Sebastian, Charles W.....	Lenzburg.....
Ramsey, Charles, J.....	Gillespie.....	Secor, Frederick D.....	Odin.....
Randle, Jesse.....	Birkner.....	Seddon, Thomas.....	Paisley.....
Rarick, Phil. W.....	Glen Carbon.....	Senloe, George.....	St. John.....
Ratcliffe, Arthur.....	Kewanee.....	Sevan, Charles.....	Danville.....
Rauth, John.....	Belleville.....	Shanahan, John C.....	Gillespie.....
Rasmussen, James E.....	Mineral.....	Shaw, James.....	Peoria.....
Rasbotten, Frank.....	Kingston.....	Sharp, Montgomery, ex.....	Coal City.....
Reagan, Daniel.....	Muddy Valley.....	Sholeen, R. A.....	Galva.....
Reavley, Robert.....	Riverton.....	Sholl, Joseph.....	Bartonville.....
Redshaw, William.....	Spring Valley.....	Shurin, Peter.....	Auburn.....
Redyard, John.....	Odin.....	Shields, Frank D.....	Pana.....
Reed, James.....	Herrin.....	Schuler, Charles.....	Gilchrist.....
Reeb, Phillip.....	Belleville.....	Sidall, John S.....	Pana.....
Reed, W. M.....	Girard.....	Sidall, James S.....	Streator.....
Reed, Wm. B.....	Willman.....	Siddell, J. W.....	Springfield.....
Reents, August.....	Kramm.....	Siddle, John.....	Edwardsville.....
Reece, Daniel.....	Danville.....	Simkin, Samuel.....	Streator.....
Reid Andrew.....	Springfield.....	Simmons, Thomas.....	Canton.....
Reid, Joseph.....	Marion.....	Simpson, Isaac.....	Glen Carbon.....
Reiley, Edward.....	Danville.....	Simpson, David.....	Spring Valley.....
Reimann, John.....	Belleville.....	Simpson, David.....	Springfield.....
Rernison, Henry.....	St. John.....	Simpson, George A.....	Springfield.....
Reynolds, William.....	East Peoria.....	Simpson, George C.....	Springfield.....
Reynolds, John.....	Streator.....	Simpson, William J.....	Collinsville.....
Rhodes, Jefferson.....	Pana.....	Simpson, Thomas.....	Collinsville.....
Richards, John.....	Murphysboro.....	Simpson, Thomas.....	O'Fallon.....
Richardson, Joseph.....	Litchfield.....	Sine, Charles A.....	Johnson City.....
Richardson, Robert.....	Cartersville.....	Sisk, A. J.....	Equality.....
Ridgley, O. L.....	Mt. Olive.....	Skinner, Alexander.....	Diamond.....
Ritchie, Alex., Sr.....	Clinton.....	Skinner, David (d).....	Diamond.....
Ritchie, A., Jr.....	Trenton.....	Skinner, John.....	Diamond.....
Rittmann, J. J.....	Decatur.....	Skinner, John.....	Astoria.....
Roberts, Benjamin, D.....	Streator.....	Skelton, A. H.....	Coal City.....
Roberts, Evan F.....	Danville.....	Sloan, Edward C.....	Wesley City.....
Roberts, Hiram.....	Collinsville.....	Small, James.....	Middle Grove.....
Roberts, John D., ex.....	Streator.....	Smethurst, Nathan.....	Spring Valley.....
Roberts, Thomas, D.....	Streator.....	Smith, Alexander M.....	Sandoval.....
Robinson, Henry.....	Gardner.....	Smith, David P.....	Dawson.....
Robinson, John T.....	Kingston Mines.....	Smith, Felix.....	Birkner.....
Robinson, L. E.....	Kingston Mines.....	Smith, James.....	LaSalle.....
Rodden, John.....	Pana.....	Smith, James J.....	Riverton.....
Rodenburg, Charles.....	Belleville.....	Smith, George A.....	Sandoval.....
Roe, Samuel.....	Oglesby.....	Smith, James L.....	Mount Olive.....
Roe, Thomas.....	Oglesby.....	Smith, James.....	East Peoria.....
Rogers, Charles.....	Duquoin.....	Smith, John P.....	Glen Carbon.....
Rogers, Josiah.....	Braidwood.....	Smith, James L.....	Riverton.....
Rogers, Llewellyn.....	Braidwood.....	Smith, James P.....	Collinsville.....
Rollo, George.....	Mt. Olive.....	Smith, Henry W.....	Springfield.....
Rollo, James.....	Pana.....	Smith, Joseph.....	Bloomington.....
Rollo, John.....	Gillespie.....	Smith, T. J.....	Pana.....
Rollo, William.....	Pana.....		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Smith, William.	Athens	Vallow, Charles	Kinmundy
Smith, William G.	Riverton	Vandebur, John, ex.	Springfield
Smith, W. H.	Hillsboro	Vandever, P. E.	Taylorville
Smith, Thomas	Belleville	Vicary, William	Pottstown
Smith, W. J.	Girard	Vicary, George	Pottstown
Sneddon, Richard	Viriden	Vicary, John, ex.	Lincoln
Sneddon, Alexander	Peoria	Vose, John	Springfield
Sollenberger, Harry C.	Dunfermline		
Solomon, John	Springfield		
Solomon, Peter H.	Belleville	Wagner, I.	Mapleton
Southworth, Andrew P.	Braceville	Walker, John K.	Chenoa
Spires, Alfred	St. David	Wallace, David	Cartersville
Springue, A. J.	Glen Carbon	Walland, Ed. S., ex.	Bartonville
Springer, Albert R.	Belleville	Walmsley, George	East Peoria
Stahle, August	Colchester	Walschlag, Stephen	Peoria
Stanton, William E., ex.	Hallidayboro	Walsh, Patrick	Springfield
Stearns, James	Sato	Walsh, Peter P.	Pleasant Plains
Steiner, Benjamin	Streator	Walters, Wm. H.	Staunton
Steel, Alexander	Collinsville	Wanlass, John	Springfield
Steel, Daniel	Spring Valley	Wanless, Wm. H.	Riverton
Steel, James	Centralia	Wantling, T. J.	Peoria
Steel, Neal	Viriden	Wantling, Thomas	Pottstown
Stevens, Walter	Seatonville	Walters, Thomas W.	Ladd
Stewart, D. G.	Peoria	Ward, Wilson	Riverton
Sturat, James	Springfield	Warren, James M.	Herrin
Stockett, Howard N.	Collinsville	Waters, Fred	Elmwood
Stockett, Lewis	St. Louis, Mo.	Watson, George R.	Wyoming
Stockett, Thos. R., Jr.	Duquoin	Watkins, W. J.	Danville
Stockman, W. H.	Moweaqua	Watts, Thomas J.	Elmwood
Stoneburner, L. L.	Seatonville	Watts, William	Elmwood
Storrie, Archibald	Canton	Weber, Henry	Murphysboro
Stratman, Henry, ex. (d)	Edwardsville	Webster, Richard	Collinsville
Strlev, Peter	Coal City	Weeks, Thomas	Streator
Streibel, George	Harrisburg	Weisenborn, F. E.	Mt. Olive
Strickland, John	Millstadt	Wenneborg, Otto	Springfield
Stricklin, W. H.	Danville	Westwater, David	Pekin
Strom, George	Danville	Westwood, Albert	Belleville
Swanberg, John L.	Peoria	Westwood, John	Streator
Swanbunt, J. P.	Nantico	Westwood, Thomas	Belleville
Swan, Frank		Wheatcraft, James	Elmwood
		Whennen, Charles	Oglesby
		Whitaker, John	Collinsville
		Whitaker, Wm. J.	Collinsville
Talbman, John, ex.	Kangley	White, John R.	Pelleville
Tattersall, George	Seneca	White, James	Ottawa
Taylor, Edward	Hillsboro	White, Michael	Viriden
Taylor, Charles	Edwards	White, Owen	Seatonville
Taylor, Daniel	Belleville	White, Louis	Spring Valley
Taylor, Henry	Edwards	Whitehead, Joseph	Farmington
Taylor, James	Springfield	Whitehead, Edward	Farmington
Taylor, Joseph	O'Fallon	Wigham, William G.	Cartersville
Taylor, Thomas, ex.	Springfield	Wiley, Robert	Murphysboro
Taylor, Thomas, ex.	Danville	Wilkinson, Frank	St. David
Taylor, Thomas, ex.	Riverton	Wilkinson, T. H.	Westville
Taylor, Thomas, ex.	Coal City	Williams, James	Diamond
Taylor, H.	Spring Valley	Williams, James	Murphysboro
Taylor, John K.	Ladd	Williams, John	Kinmundy
Taylor, John	Collinsville	Williams, John	Farmington
Taylor, John	Belleville	Williams, Louis	Riverton
Taylor, John B.	Belleville	Williams, Robert H.	Belleville
Taylor, John B.	Belleville	Williams, Robert H.	Girard
Taylor, John B.	Belleville	Williams, Robert H.	Duquoin
Taylor, John B.	Belleville	Williams, Robert H.	Card-P
Taylor, John B.	Belleville	Williams, Wm. H.	Farmington
Taylor, John B.	Belleville	Williams, W. W.	Hornsey
Taylor, John B.	Belleville	Williams, David Y.	Herrin
Taylor, John B.	Belleville	Williams, David Y.	Staunton
Taylor, John B.	Belleville	Williams, David Y.	Cartersville
Taylor, John B.	Belleville	Williams, David Y.	Westville
Taylor, John B.	Belleville	Williams, David Y.	Coal City
Taylor, John B.	Belleville	Williams, David Y.	Murphysboro
Taylor, John B.	Belleville	Williams, David Y.	Spring Valley
Taylor, John B.	Belleville	Williams, David Y.	Kinmundy
Taylor, John B.	Belleville	Williams, David Y.	Cartersville
Taylor, John B.	Belleville	Williams, David Y.	Cartersville
Taylor, John B.	Belleville	Williams, David Y.	Pekin
Taylor, John B.	Belleville	Williams, David Y.	Staunton

*Certificates of Competency—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Wilson, John J.....	Wesley City.....	Woods, William, ex.....	Morris.....
Wilson, Robert.....	Roanoke.....	Worthington, Willard.....	Duquoin.....
Wilson, William.....	Middle Grove.....	Wright, John.....	Belleville.....
Wilson, Thomas.....	Norris.....	Wright, J. W.....	Kingston Mines.....
Wilson, Wm.....	Sparta.....	Wunderlick, John.....	Marissa.....
Wilson, David.....	Lincoln.....		
Wilson, W. R.....	Reed City.....		
Winneberg, W.....	Springfield.....	Yates, John.....	Belleville.....
Winning, James.....	Carterville.....	Young, Hiram.....	Girard.....
Winning, Robert.....	Carterville.....	Young, Hugh G.....	Braidwood.....
Winterbottom, John.....	Murphysboro.....		
Winters, Samuel P.....	Bartonville.....		
Wittman, Daniel.....	New Baden.....	Zink, Peter A.....	Belleville.....
Walschlag, Stephen, ex.....	Peoria.....	Zink, Charles L.....	Belleville.....
Wood, Henry.....	Streator.....	Zoller, Robert H.....	Braidwood.....
Wood, Henry.....	Troy.....		

## MINE MANAGERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Adams, Charles T.....	Rosboro.....	Forsythe, Peter.....	Centralia.....
Alsopp, William H.....	New Castle.....	Forsythe, Thomas.....	Centralia.....
Andreas, August.....	Belleville.....	Fowler, Henry.....	Millersburg.....
Angel, Hiram.....	Glenn.....	Franklin, Bernard.....	Lincoln.....
Atkinson, Edward.....	Streator.....		
Axford, Thomas.....	Petersburg.....		
		Gilbert, Edward.....	Niantic.....
Bailey, Robert.....	Sunfield.....	Glenn, John.....	Peoria.....
Bangart, Henry (d).....	Lincoln.....	Goodler, Wm.....	Cuba.....
Bartlett, Thomas.....	Cuba.....	Golden, George.....	Springfield.....
Barwell, John.....	Cutler.....	Graber, Henry.....	Orchard Mines.....
Bates, W. H.....	Winchester.....	Grant, David.....	Pekin.....
Betz, Charles C.....	Duquoin.....	Gray, John (d).....	Roanoke.....
Bolander, John.....	Pekin.....	Green, Robert.....	Springfield.....
Bracken, James A.....	Greenview.....	Greenwood, Robert.....	Duquoin.....
Brown, Jabez.....	Cutler.....	Grieve, Peter.....	Collinsville.....
Brown, Thomas M.....	Pinckneyville.....	Griffith, William A.....	Colona.....
Bunting, J. H.....	Grape Creek.....		
Bushong, Andrew M.....	Danville.....	Haddick, Robert.....	Cable.....
		Haensel, Daniel.....	Lenzburg.....
Caldwell, James.....	Elmwood.....	Harrison, Ernest.....	Streator.....
Cameron, Duncan S.....	Sorento.....	Heinz, John L.....	LaSalle.....
Cape, Thomas.....	Fairview.....	Howe, William.....	Streator.....
Chere, George.....	Pleasant Plains.....	Hoye, James.....	Braidwood.....
Christie, David.....	Murphysboro.....	Hutton, James.....	Tallula.....
Collier, Frank J.....	Bartonville.....	Hallenmeyer, Julius.....	Golden Eagle.....
Cooper, Charles.....	Nilwood.....		
Coster, George.....	Crape Creek.....	Jenkins, Eugene.....	Bartonville.....
Crawson, Elihu.....	O'Fallon.....	Jerremere, Wm. M.....	Duquoin.....
Cummings, William.....	Rushville.....	Jones, David.....	Marissa.....
Cusack, M.....	Edwards.....		
		Keller, George, Jr.....	Bartonville.....
Dale, John.....	Fredonia.....	Kidd, Andrew.....	Wenona.....
Davenport, John.....	Harrisburg.....	Kidd, Eugene.....	Ridge Prairie.....
Davis, Caleb.....	Collinsville.....	Kirley, Bernard.....	Kewanee.....
Davison, Matthew.....	Duquoin.....	Klingenhagen, Henry.....	Belleville.....
Deans, Henry.....	Percy.....	Kramer, Anthony F.....	Sato.....
Donaly, James.....	Carterville.....		
Duffner, J. W.....	Belleville.....		
		Laumbattus, Philip H.....	Tamaroa.....
Enstminger, Emanuel E.....	Crab Orchard.....	Lenze, Charles.....	Belleville.....
Entwhistle, Robert.....	Colchester.....	Lloyd, Hosea W.....	Sheffield.....
Erwin, William.....	West Belleville.....		
		Mason, Mark, Jr.....	Sato.....
Fagan, Patrick.....	Decatur.....	Maale, Robert.....	Belleville.....
Fletcher, Adam.....	Ladd.....	Meehan, Patrick.....	Breeds.....
		Meehan, Peter.....	Williamsville.....

*Certificates of Service—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Meredith, C. W.	Augusta	Radford, William	Cuba
Michaels, Lewis	Belleville	Randle, Jessie	Birkner
Miller, Nicholas	Lebanon	Reynolds, William	East Peoria
Miller, William	Lenzburg	Royster, Moses L.	Peoria
Milen, John	Norris	Rusche, Christian d)	East Peoria
Millett, Thomas	Collinsville	Ryan, James	Springfield
Moffatt, Thomas	Percy		
Monaghan, Edward	Carbon Hill	Schmidt, Frank P.	Limestone
Morin, Jeremiah	Danville	Shaw, Nathan	Kramm
Morton, Robert	Virginia	Smith, David P.	Dawson
Murphy, John	Braldwood	Smith, Felix	Breese
McCleery, James	Kangley	Solomon, Robert	Springfield
		Spencer, George	Duquoin
McDonald, Daniel	Menard	Stanway, George	Blair
McDowell, James A.	Grape Creek	Stark, Andrew	Galva
McKernan, James	Collinsville	Stewart, David J.	Seatonville
		Stuhlsatz, Michael	Kewanee
Neal, William	Murphysboro	Sutton, Thomas	Millstadt
Nicholson, William	Cuba	Swan, Charles	Oakwood
Noyd, Lewis	Galva	Swisher, James E.	St. David
Oexner, Wendelin	West Belleville	Teifer, Alexander W.	Morris
		Terrill, Thomas	Colchester
		Thompson, John	DeSoto
		Thornton, James	Duquoin
Parkin, William	Sweetwater	Waugh, George, Sr.	Peoria
Patterson, J. C.	Assumption	Westwood, Thomas	Belleville
Pearl, John	Braidwood	Wilkin, John B.	Petersburg
Pfander, Fred	Peoria	Williams, John	Sato
Pickett, Robert	Canton	Williams, John T.	Coalville
Pool, Edgar E.	Murphysboro	Williams, Walter	Duquoin
Price, David	Fairbury	Wilms, William	Springfield
Price, James L.	Danville		
Pullen, Charles	Sorento		

MINE MANAGERS HOLDING CERTIFICATES OF COMPETENCY AT MINES  
EMPLOYING NOT TO EXCEED TEN MEN.

Name.	Postoffice.	Name.	Postoffice.
Aby, J. J.	Laura	Backling, William	East Peoria
Adams, J. M.	Denmark	Backofen, Jacob	Littleton
Adkins, Elmer	Danville	Badders, George	Carrier Mills
Aldrage, John	Danville	Bailey, Oliver	Carbondale
Aldridge, William R.	Danville	Baird, W. C.	Colchester
Aldrich, M. M.	Geneseo	Baird, Oswald	Sparta
Ahlgren, Emil	Kewanee	Bailey, W. R.	Oakwood
Alexander, Orie A.	Huntsville	Baker, L. C.	Industry
Allen, James T.	Pleasant View	Baker, William H.	Coal Valley
Allen, W. P.	Spillertown	Baker, Hilan D.	Ottawa
Allison, John	Loding	Baker, Joseph	Fairbury
Allison, Elmer	Danville	Baker, F. W.	St. David
Anderson, Alexander	Sato	Baker, Wm. J.	Equality
Anderson, Lee A.	Streator	Baldwin, John O.	Danville
Anderson, N. C.	Ottawa	Bales, Joseph L.	Bartonville
Anderson, Josh	Equality	Balmar, Jno. D.	North Alton
Anderson, M. H.	Knoxville	Bail, Samuel	Abingdon
Anna, Charles	Wataga	Banney, H. E.	Ava
Argus, Leonard	Belleville	Barbary, Paul	Colchester
Arrandale, Jno. W.	Streator	Barber, William	Streator
Ascraft, J. W.	Mayton	Bargreen, Charles	Farmington
Aston, Emanuel	Danville	Barkley, Charley	Palzo
Atkinson, Amos	Colchester	Barnett, W. M.	Bryant
Atkinson, M.	Kewanee	Barter, Charles	Wyoming
Atkinson, Chas. W.	Colchester	Bass, Oscar J.	Kewanee
Auglin, John	Shelbyville	Bates, Geo. H.	Kewanee
Avery, Geo. W.	Industry	Bates, Wm. T.	Rushville
Axley, Edward	Roodhouse	Bates, Watson	Lewistown
Aylsworth, John	Frederick	Bath, Isaac	

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Bath, Abraham.....	St. David.....	Cadle, John.....	Danville.....
Baugh, William.....	Henry.....	Cagle, William.....	Frederick.....
Beatty, John T.....	Mascoutah.....	Cagle, John.....	Littleton.....
Beatty, John T.....	Mascoutah.....	Cagdall, A. C.....	Stonefort.....
Becker, John.....	Kewanee.....	Cairns, James.....	Brighton.....
Becroft, Leonard.....	Atkinson.....	Caldwell, Thomas.....	Avon.....
Bectler, John.....	Pekin.....	Camey, Robt. P.....	Lombardville.....
Beddow, Benj.....	Danville.....	Campbell, Ed.....	White Hall.....
Beers, M. A.....	Cable.....	Campbell, Andrew F.....	Roseville.....
Beever, J. H.....	Farmington.....	Campbell, Frantis A.....	Viola.....
Begum, Geo. E.....	Ottawa.....	Campbell, W. R.....	Vergennes.....
Bell, James.....	Morris.....	Cameron, Henry.....	Viola.....
Bell, Charles.....	Pleasant View.....	Carlson, Alfred.....	Sunny Hill.....
Beltz, Lindolph.....	Carterville.....	Carlson, Andrew F.....	Kewanee.....
Belz, George.....	Carterville.....	Carroll, C. E.....	Duncan.....
Bennet, Fred.....	Chillicothe.....	Carroll, Thos. J.....	Bunker Hill.....
Benson, William.....	Winchester.....	Carrel, A. J.....	Duquoin.....
Berry, John.....	Macomb.....	Carter, Elmer.....	Camden.....
Berry, George E.....	Peoria.....	Carter, Joe.....	Kewanee.....
Berry, Charles.....	Monica.....	Carter, F. R.....	Danville.....
Berry, W. J.....	Macomb.....	Carter, Wm. B.....	Danville.....
Berry, R. M.....	Cottage Grove.....	Carson, Charles H.....	Fiatt.....
Berry, Wm.....	Monica.....	Carrison, George.....	Colchester.....
Beuer, Jacob W.....	Castletown.....	Casteter, John.....	Streator.....
Beuer, Joseph.....	Castletown.....	Casteter, William.....	Streator.....
Bexton, Wm. G.....	Colchester.....	Catt, A. G.....	Newton.....
Biggs, Henry.....	Ledford.....	Catton, John.....	West Jersey.....
Bird, Daniel.....	Roseville.....	Catton, C. F.....	West Jersey.....
Birdois, D.....	Peoria.....	Chadwick, E.....	Oak Hill.....
Birdois, John.....	Peoria.....	Charlingsworth, Amos C.....	Fosterburg.....
Bixby, Wm. M.....	Blair.....	Charlson, Chas.....	Wyoming.....
Blackburn, Kelly.....	Johnson City.....	Charnok, Wm.....	Victoria.....
Blagden, Richard.....	Leaman.....	Chesney, Alonzo T.....	Ava.....
Blakey, Cuthbert.....	Wyoming.....	Chilton, Richard.....	Kewanee.....
Blessing, George.....	East Peoria.....	Chipping, W.....	Canton.....
Blockley, Rufus.....	Equality.....	Chorlton, James.....	French Village.....
Blotvagal, William.....	Worden.....	Christman, Charles W.....	Sparland.....
Blue, J. W.....	Grape Creek.....	Clark, Samuel G.....	Duquoin.....
Blue, Ed.....	Grape Creek.....	Clark, James A.....	Equality.....
Bode, W. H. H.....	Chesterfield.....	Clark, J. H.....	Brimfield.....
Boden, Ed.....	Pre-emption.....	Clarkson, William H.....	Edwards.....
Boldwyn, T. W.....	Vergennes.....	Clarkson, Lorenzo.....	Kickapoo.....
Boostrom, Ben B.....	Wataga.....	Clifford, Geo. L.....	Oneida.....
Bonnett, A. H.....	Pilot.....	Cody, Richard.....	Peoria.....
Bowman, G. W.....	Yates City.....	Coespire, G.....	Galesburg.....
Bowman, T. L.....	Industry.....	Coke, Robert.....	Marion.....
Boyer, A. P.....	Etherly.....	Colburn, John R.....	Vandercook.....
Brackhouse, Fred.....	Chapin.....	Collins, Thomas.....	Collins.....
Braunaman, F. L.....	Danville.....	Collins, A. Y.....	Greenfield.....
Brandt, Jean.....	Georgetown.....	Collins, W. N.....	Ava.....
Brandt, Henry C.....	Petersburg.....	Colwell, Robert.....	Brimfield.....
Brandt, William.....	Mineral.....	Colwell, H.....	Duncan.....
Brannon, James.....	Caseyville.....	Colwell, George.....	Wyoming.....
Brennan, George.....	Danville.....	Cowert, Lewis M.....	Oakwood.....
Brinley, Ross.....	Danville.....	Cook, Charles.....	Grape Creek.....
Broderick, Andrew.....	Shelbyville.....	Cook, James K.....	Etherly.....
Brophy, M.....	Ottawa.....	Cook, W. H.....	Alexis.....
Brown, John.....	Muncie.....	Cook, Louis B.....	Etherly.....
Brown, William S.....	Lewistown.....	Cook, Wm.....	Peoria.....
Brown, S. C.....	Lowell.....	Coons, Harvey.....	Fairview.....
Brooker, Fred.....	Grape Creek.....	Cooper, Albert W.....	Petersburg.....
Bryan, John.....	Grape Creek.....	Cowens, W. P.....	Pinkneyville.....
Bryant, S. C.....	Roseville.....	Combs, J. W.....	Kewanee.....
Bryner, Leonidos.....	Streator.....	Compton, Archie.....	Sparland.....
Buchanan, B. M.....	Collinsville.....	Coulson, Foster.....	Wyoming.....
Bullock, Joseph.....	Collinsville.....	Crain, Willie.....	Ava.....
Bullock, Henry.....	Duquoin.....	Crawford, W. F.....	Collison.....
Bullock, Robert.....	Colchester.....	Cressey, George.....	Colchester.....
Bunt Joseph.....	Colchester.....	Cryer, John H.....	Morris.....
Bunting, C. J.....	Danville.....	Crew, Joseph.....	Chillicothe.....
Burdick, Frank.....	Industry.....	Crow, S. F.....	Stonefort.....
Burk, W. W.....	Conant.....	Crow, Wm.....	Ava.....
Burney, Ralph.....	Colchester.....	Croxton, Fred W.....	Pleasant View.....
Butter, William.....	Stonefort.....	Croxton, Walter.....	Pleasant View.....
Byrnes, John.....	Brighton.....	Crozica, E.....	Etherly.....



*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Crowse, James W.	Union	Emerick, Alonzo	Farmington
Cunningham, Lewis	Danville	Ennis, James	Peoria
Cunningham, R. A.	Cutler	Ensinger, E. E.	Crab Orchard
Cummings, Wm. M.	Rushville	Entwistle, W.	Colchester
Curtiss, Sanford	Rockbridge	Erhardt, Anton	Belleville
Cutler, F. H.	Princeville	Erickson, John	Danville
		Erikson, August	Galva
Dabbles, Joseph	Danville	Ernst, Frank	St. Johns
Dainty, Jabez	St. David	Espley, J. T.	Morris
Dairymple, Wm. C.	Neponset	Essex, G. W.	Soperville
Dalton, Isaac	Yates City	Evans, Ed E.	Streator
Daniel, Jay	Danville	Evans, Lewis	Kangley
Darrah, J. N.	Blandinsville	Evans, W. L.	Cottage Grove
Donagherty, Robert T.	Table Grove	Eynman, Albert	Lewistown
Davis, Charles	Abingdon		
Davis, Benjamin	Streator	Fairley, John	Cambridge
Davis, T.	Fayette	Farrell, Hugh	Monica
Davis, Chas. R.	Salisbury	Faust, Jacob	Pinckneyville
Davidson, Thomas	Griffin	Fenwick, Geo. A.	Danville
Davidson, Bert	Colchester	Filker, George	Farmington
Dalton, Augustus	Yates City	Fink, Frank	Turo
Dawson, J. C.	Deer Park Glen	Fish, William	Appleton
Deaton, Abraham L.	Middletown	Fisher, W.	Murrayville
Deaven, Camille	Orchard Mines	Fisher, N. J.	East Peoria
Delaney, Thomas	Avon	Fisher, Alcide	Brighton
Dempsy, G. F.	Equality	Flemming, Thomas	Morris
Demsey, J. I.	Equality	Flynn, William	Briar Bluff
DeMoss, Albert	Canton	Foley, William H.	Mapleton
DeWolf, Ernest	Victoria	Forester, W. M.	Equality
Dewey, David C.	Wyoming	Foster, Geo. W.	Colchester
Denton, Fred	Petersburg	Foster, Thurman	Carbondale
Dickinson, Joseph	Norris	Fox, Thomas	Lewistown
Dickson, Wm. W.	Colchester	France, Wesley	Fairmount
Dietrich, Phillip	Freeburg	France, Michael	Fairmount
Dills, Martin	New Burnside	Francis, Wm. G.	Streator
Dixon, A.	Princeville	Francis, C. W.	Catlin
Dixon, J. K.	Kewanee	Fredrickson, Andrew	Danville
Dougherty, Jas. R.	Pre-emption	French, Strawther	Bradford
Douglas, T.	Lafayette	French, Alonzo	Yates City
Doyling, Wm. F.	East Peoria	Frisby, E. O.	Spartan
Dolan, Peter	Wataga	Frisby, W. E.	Spartan
Doner, Louis	Green River	Frost, Michael	Danville
Dusev, Charles W.	Redson	Fry, John	Ray
Duty, L. R.	Turo	Fuller, James K.	Modena
Dougherty, P.	Preemption		
Dowell, Allen R.	Campbell Hill	Gaddis, Ed.	Hudgens
Dowling, Chas.	Danville	Gahn, Henry	Marion
Dowling, Edward	St. David	Gainer, Wm. T.	Carbon Cliff
Drake, Stephen A.	Canton	Gallagher, W. F.	Mode
Drazer, A. I.	Vandercreek	Galloway, John	Glasford
Dyer, Andrew	Danville	Galloway, Zacharias	Morris
Dudley, Z. B.	Knoxville	Gainer, Thomas	Carbon Cliff
Duff, Robert C.	Kewanee	Garland, Samuel	Kewanee
Dull, F. B.	Tennessee	Gary, George	Ray
Duncan, John	Sheffield	Geisler, Henry	Brighton
Dunn, Henry	Cassola	Gedelman, E. F.	Freeburg
Durant, J.	Brimfield	Gensol, Joseph	Lewistown
Durham, Simon	Canton	Gieselhausen, Gus E.	Peoria
Dunsford, Charles	Alsher	Gergens, Martin	Pinckneyville
		Gerlach, Geo. F.	Sparta
Dust, August	Belleville	Gibbs, Frank	Morris
Dutcher, Frank	North Alton	Gidderoy, W. W.	Monmouth
Dutton, James	Ortawa	Gilmer, Charles	Elmira
Dwight, J.	Ortawa	Giles, Geo. M.	Winchester
Dwight, Thomas	Ortawa	Giles, Fred F.	Danville
Dwight, Robert	Ortawa	Gilligan, Jackson	Industry
Dwight, John	Crab Orchard	Glenn, Jetho	Briar Bluff
Dwight, John	Harrisburg	Goble, Frank M.	Industry
Dwight, John	Ortawa	Goble, James	Kewanee
Dwight, John	Ortawa	Goble, Richard	Kewanee
Dwight, John	Ortawa	Goble, Joseph	Lombardville
Dwight, John	Ortawa	Goble, W. S.	Brimfield
Dwight, John	Ortawa	Graft, August	Kewanee
Dwight, John	Ortawa	Green, William	Coal Valley
Dwight, John	Ortawa	Green, Samoe. J.	Colchester

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Green, Henry.....	Canton.....	Hodge, S. M.....	Danville.....
Green, Clarence.....	Sparland.....	Hodge, John W.....	Rushville.....
Green, Milton.....	Keithsburg.....	Hodge, Benjamin A.....	Danville.....
Grice, Albert.....	Kewanee.....	Hodgett, Absalom.....	Kewanee.....
Griffiths, Edward.....	Roodhouse.....	Hodgson, Wm.....	Colchester.....
Griffiths, Thomas W.....	White Hall.....	Hodson, James.....	Danville.....
Griffiths, D.....	Caseyville.....	Hogercamp, Walter.....	Pontiac.....
Griffiths, James.....	Grape Creek.....	Hohimer, Harry.....	Petersburg.....
Griffiths, Joseph F.....	Moline.....	Holley, Wm. G.....	Wyoming.....
Griggs, Allison.....	Brimfield.....	Holman, W. A.....	Vandercook.....
Grim, David, Jr.....	Victoria.....	Horrocks, Benj.....	Henry.....
Grossman, Louis.....	Smithton.....	Hosby, Joseph.....	Danville.....
Grosweiler, Joseph, Jr.....	Pekin.....	Houseman, Fred.....	Fosterburg.....
Groth, John.....	Carbon Cliff.....	Howard, Charles.....	Modena.....
Groy, Max.....	Kewanee.....	Howe, Wm.....	Streator.....
Guckert, P. P.....	Hampton.....	Huber, W. H.....	Lewistown.....
Gunnert, A. J.....	Fairview.....	Hughes, John.....	Petersburg.....
Gurten, Louis.....	Pinckneyville.....	Hudson, Samuel.....	White Hall.....
Guy, Thomas.....	Colchester.....	Humes, Michael.....	Colchester.....
		Hummel, John A.....	St. Johns.....
		Hunter, Horace L.....	Briar Bluff.....
		Hurst, John.....	Belleville.....
		Hurst, Lot.....	Bartonville.....
Hagey, Wm. H.....	Lewistown.....		
Haiding, James A.....	Wyoming.....	Isackson, Martin.....	Wataga.....
Hall, John.....	Colchester.....	Isaacson, P. O.....	Wataga.....
Hall, John.....	Grape Creek.....	Ingram, Robert H.....	Sparland.....
Hall, Charles.....	Dunfermline.....	Ingram, J. S.....	Harrisburg.....
Hall, Geo. W.....	Newton.....	Irwin, James.....	Green River.....
Hamilton, John W.....	Frederick.....	Irwin, Fred.....	Smithton.....
Hamilton, John.....	Cuba.....	Ivans, W. A.....	Cottage Grove.....
Hamilton, Gail G.....	Frederick.....		
Hammett, Otho J.....	Chillicothe.....	Jacobs, John.....	Wataga.....
Handly, John L.....	Coal Valley.....	Jacobs, Claude.....	Danville.....
Hanmann, Wm.....	Okawville.....	Jacquot, Augustare.....	Danville.....
Harbaugh, Geo. W.....	Chesterfield.....	Jack, John.....	Marion.....
Harnisch, Ernest.....	Brighton.....	Jamieson, E. J.....	Loding.....
Harrington, Frank.....	Farmington.....	Jamieson, Guy.....	Loding.....
Harrington, D.....	Danville.....	Jarrell, Miles.....	Cottage Grove.....
Harris, A. J.....	Tilton.....	Jayne, Richard.....	Cuba.....
Harris, David.....	Hanna City.....	Jenkins, D. A.....	Danville.....
Harris, Oliver.....	Canton.....	Jenner, A. T.....	Pinckneyville.....
Harris, James S.....	DuBois.....	Johnson, C. E.....	Canton.....
Harris, Hardy.....	Catin.....	Johnson, Gus.....	Kewanee.....
Harman, John.....	Peoria.....	Johnson, Cornelius F.....	Middletown.....
Harvey, John.....	Murphysboro.....	Johnson, Ashford.....	Hanna City.....
Haskins, Alfred.....	Grape Creek.....	Johnson, J.....	Farmington.....
Hauck, Henry L.....	Fosterburg.....	Johnson, Benjamin.....	Smithboro.....
Havens, Bert.....	Truro.....	Johnson, J. E.....	Dunfermline.....
Hayes, C. G.....	Kewanee.....	Johnston, James H.....	Wyoming.....
Heathcock, George.....	Princeton.....	Jones, W. L.....	Bradford.....
Heather, James.....	Morris.....	Jones, C. S.....	Sato.....
Heintz, A. F.....	Kickapoo.....	Jones, W. W.....	Bradford.....
Hendee, Isaac.....	Bernadotte.....	Jones, A. J.....	Peoria.....
Henry, Samuel.....	Danville.....	Jones, William.....	Colchester.....
Henson, John E.....	Denmark.....	Jones, A. H.....	Colchester.....
Hennemann, Charles.....	Belleville.....	Jones, James A.....	Winchester.....
Herman, John.....	Oraville.....	Jones, James H.....	Streator.....
Herman, John.....	Kewanee.....	Jones, John L.....	Peoria.....
Herkstrom, E.....	Victor.....	Jones, Jackson.....	Winchester.....
Herrington, Thomas.....	Princeton.....	Jones, W. H.....	Catin.....
Herseman, Herman.....	East Peoria.....	Jones, Wm. J.....	Kewanee.....
Hewitt, William B.....	Chenoa.....	Jones, Evan A.....	Catin.....
Hews, W. B.....	Canton.....	Jones, Arthur.....	Viola.....
Hibberd, Lewis W.....	Peoria.....	Jones, Thomas.....	Peoria.....
Hickson, David.....	Ottawa.....	Jones, Andrew.....	Winchester.....
Hicks, Wm. E.....	Crab Orchard.....	Joos, Conrad.....	Peoria.....
Hickman, Willis.....	Frederick.....	Jordan, Will.....	St. David.....
Higbee, Lawrence.....	Princeville.....	Jordan, John L.....	Trivoli.....
High, Charles.....	Danville.....	Jordan, E. S.....	Newton.....
Hissong, Charles.....	Tilden.....	Joubost, George.....	Grayville.....
Hibbard, George A.....	Limestone.....	Jourdan, Wm. L.....	Smithton.....
Hilliard, E.....	Colchester.....		
Hillier, Walter T.....	Carbondale.....		
Hillier, Jesse.....	Rapatee.....		
Hind, Robert.....	Salisbury.....		
Hinderer, Frank.....	Frederick.....	Kabel, Herman.....	Moro.....
Hoar, William.....	Colchester.....	Kavanaugh, J. A.....	Colchester.....
Hobby, Wm. H.....	Colchester.....		

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Kay, James	Atkinson	Mable, William	Fairview
Kay, William H.	Morris	Mahler, G. W.	Ray
Kay, Bert	Atkinson	Malone, Harry	Duquoin
Kay, Robert	Briar Bluff	Mallergren, James W.	Petersburg
Kay, William G.	Atkinson	Mantes, William	Golden Eagle
Kelly, Thomas	Grape Creek	Mansill, Richard	Rock Island
Kear, George G.	Spartan	Market, Albert	Roodhouse
Kearney, John	Shelbyville	Martin, William, Sr.	Colchester
Keel, W. John	Stonefort	Martin, G. W.	Laoc
Keen, A. G.	Friendsville	Martin, J. B.	Laoc
Keimly, Henry	Kewanee	Martin, J. W.	Farmington
Keith, William	Rushville	Martin, Fred	Peoria
Kerlaw, J. W.	Briar Bluff	Martin, John H.	Canton
Kidd, J.	Roseville	Martin, Patrick	Peoria
Kielhorn, Wm. C.	Shawneetown	Martin, William, Jr.	Colchester
King, Ambrose I.	Victoria	Martin, David A.	Canton
King, Wm. T.	New Burnside	Martin, Geo.	Kewanee
King, Joseph	Pekin	Marriage, Joseph	Grape Creek
King, Henry R.	Campbell Hill	Marxer, Joseph	Milstadt
King, Edw.	Wyoming	Marley, Richard	Atkinson
Kingston, Patia	Equality	Marshall, G. A.	Cuba
Kings, Oscar	Streator	Marshall, J. C.	Caseyville
Kipling, William	Colchester	Mason, Frank A.	Carbondale
Klingens, Emil	Belleville	Massey, Jesse	Streator
Kloppman, John	Ipawa	Mathew, T. J.	Stonefort
Knoth, John	Roodhouse	Matsinger, Theodore	Crab Orchard
Kodman, Fred	Rapid City	Mauck, Joseph	Danville
Korkamp, A.	North Alton	Mauck, L. F.	Danville
		Medearis, Jas.	Henry
		Meiker, B. F.	Danville
		Melvin, Leo	Kewanee
		Melvin, R.	Kewanee
		Mellegram, John	Petersburg
		Meller, Louis	Brighton
		Memmer, L.	Canton
		Mercy, Geo.	St. David
		Mercer, L. W.	St. John
		Morrow, G. W.	Crab Orchard
		Merrill, R. M.	Campbell Hill
		Mescher, W. T.	LaHarpe
		Mertz, Wm. M.	Ottawa
		Miffs, Henry	New Douglas
		Miller, George A.	Danville
		Miller, Silas	Grape Creek
		Miller, Eliza	Grape Creek
		Miller, Smith	Mapleton
		Miller, L. S.	Grape Creek
		Miller, George A.	Danville
		Miller, C. G.	Youngstown
		Minchell, Robert T.	Prairie town
		Minchell, Robert J.	Shawneetown
		Mishaker, John	Danville
		Mittler, John	North Alton
		Mittler, Archie	Carriers Mills
		Montech, Chas.	Bradford
		Moriman, Mark	Illinois City
		Morrison, Aza	Medora
		Morse, John K.	Orien
		Morse, Nantz	Saline Mines
		Morse, W. F.	Victoria
		Morse, Sam J.	Cottage Grove
		Moran, Michael F.	Sheffield
		Morrison, D. D.	Danville
		Morris, Geo. J.	Millsburg
		Morpan, Charles	Cresida
		Morphy, Geo.	Colchester
		Morphy, Charles	Eberly
		Moss, Oliver	Vergennes
		Morton, J. J.	Danville
		Mosher, Geo.	Atkinson
		Moss, Seneca	Victoria
		Moss, William	Streator
		Moss, Chris	Farmington
		Morris, Fred	Belleville
		Morris, Geo.	Monmouth

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Murphy, J. J.	Fairview	Penman, William	Preemption
Murphy, Chas. H.	Canton	Penn, George	Belleville
Murcheson, Kenneth	Kewanee	Penn, Henry	Brimfield
Murray, Samuel	Monmouth	Perkins, John E.	Osceola
Mustard, Elijah	Canton	Perkins, J. B.	Ray
Muzzy, William H.	Peoria	Perdue, Joseph	Hudgens
Myers, W. H.	Carbondale	Perry, D. E.	Colchester
Myers, Geo	Ottawa	Peters, Benard	Swansea
Myers, Perry	Bethalto	Peters, M.	Streator
Myers, Chas. A.	LaHarpe	Peterson, August	Soperville
McAnnally, Jno.	North Alton	Peterson, Nicholas	Osceola Twp.
McBride, W. T.	Fairview	Petrie, George	Pekin
McCartney, C. T.	Alexis	Philips, Sebirt	Carbondale
McDaniel, Chas. C.	Wyoming	Presson, Byran B.	Cable
McClure, Marion	Colchester	Presswood, C.	Pinckneyville
McCullough, Jas.	Ottawa	Price, Benjamin	Kewanee
McDaniels, Theodore T.	Wyoming	Pichon, Joseph	Danville
McDonald, Samuel	Moro	Pickett, George	Danville
McElwee, Charles P.	Winchester	Pistor, William	Millstadt
McGovern, T. B.	Oneida	Polonius, George	Colchester
McGovern, S.	Oneida	Politt, James H.	Canton
McGuire, John	Aley	Poole, Plummer	Danville
McGuire, Patrick	Winchester	Poore, William	Kickapoo
McIntire, Geo.	Industry	Posten, M. W.	Briar Bluff
McKananah, Samuel R.	Alexis	Porter, William H.	Macomb
McKane, R.	Galva	Porritt, Thomas	Carterville
McKeen, William H.	Danville	Portwood, James	Lewistown
McKiney, Charles	Cottage Grove	Potter, L.	Mapleton
McLain, William H.	Equality	Powers, James	New Burnside
McLaughlin, Joseph	R. F. D. No. 5	Presson, J. A.	Carbondale
McMichael, T. M.	New Burnside	Price, John	Wyoming
McMillan, William J	Streator	Proctor, Christopher	Elmwood
McNaught, Henry	Williamfield	Pugh, Geo. J.	Ava
McNeil, William	Griffin	Putnam, Jonah S.	Danville
		Pyle, Joseph F.	Kewanee
Nee, John J.	Colchester	Raddlebeck, Joseph	Brimfield
Nelson, James	Knoxville	Kaffee, Robert	Farmington
Nelson, Louis	Streator	Kains, Charles	Oraville
Nelson, Nels.	Ottawa	Rand, John	Bryant
Nelson, John S.	Morris	Rands, Thomas	Chesterfield
Nelson, Chris	Chandlerville	Ratcliffe, Arthur	Neponset
Nenneker, Andy	Bushnell	Ratley, Charles	Cypress Junction
Nenneker, Fred	Hushnell	Ray, A. B.	Catlin
Neville, Wm.	Catlin	Katley, James E.	Equality
Newell, J.	Sparland	Ray, William	Danville
Newton, F. B.	Modena	Rayborn, George	Winchester
Newton, Geo. H.	Toulon	Reed, William	Sojerville
Newton, Ben. F.	Bradford	Rennick, William C.	Modena
Nibbelin, John	Elwood	Reed, W. B.	Wilsman
Nighswonger, Asa	Sparland	Reed, John	Herrin
Nodeon, E. W.	Wataga	Reib, Conrad	Belleville
Norein, A. G.	Sheffield	Reid, J. Thomas	Saline Mines
Norris, Floyd	Duquoin	Reinhardt, Frank	Wataga
Nozley, Alfred	Golden	Reinhardt, Conrad	Blair
Nyue, John E.	Ga va	Reiff, Jacob	Kewanee
O'Daniel, Arthur	Danville	Reeves, John	Hudgens
Oluham, Ralph	Colchester	Revis, J. H.	Rodhouse
Odum, D. B.	Carriers Mills	Reynolds, James	Colchester
Owens, Orby G.	Stonefort	Reynshaw, John	Iden
		Rees, Lemuel	Streator
Pahlman, H.	Bluffs	Rhoades, Benjamin	Shelbyville
Parker, William	Milan	Ribley, R.	Cuba
Parker, W. G.	Winchester	Richardson, John	Shelbyville
Parle, Sylvester	Danville	Richardson, William	Moro
Parle, James	Danville	Richards, Thomas	Ottawa
Parr, Joseph	Princeville	Rich, John C.	Carbondale
Parthan, M.	Sato	Richard, George	French Village
Paul, John	Sheffield	Richev, C. H.	Peoria
Payne, Charles C.	St. John	Riegels, Adolph	Golden Eagle
Pearson, William M.	Astoria	Riley, J. R.	Breeds
Pearson, John	Colchester	Riley, Michael	Braidwood
Peck, E. E.	Canton	Riley, Cyrus W.	Mineral
Pendergast, John	Soperville	Riley, Elero	Minson
Penman, James	Streator	Ringer, Benjamin	Morris
		Riordan, John H.	Pinckneyville



*Mine Managers (Ten Men), Certificates of Competency—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Thomas, William	Streator	Westerlund, John	Streator
Thomas, James	Danville	Whalen, M. Jr.	Colchester
Thomas, George	Sheffield	Wheelhouse, Samuel D.	Rushville
Thomas, Samuel	Catlin	Whittaker, Aaron	Roodhouse
Thurston, John H.	Wyoming	White, Charles F.	Danville
Tilley, Wm.	Duquoin	White, Charles	Wyoming
Todd, Ralph	Kewanee	White, M. C.	Pawnee
Todd, Geo. B.	Catlin	White, Henry	Elmwood
Todd, John	Victoria	White, Wm. J.	Bartonville
Toney, A.	Grape Creek	White, John A.	Frederick
Tompkins, C. S.	Mineral	Whynn, Wm. E.	Coal Valley
Tompkins, Harvey	St. David	Wilkinson, M. C.	Danville
Towner, L. H.	Bluff City	Wilcox, Wilson	Astoria
Tracy, Edwin F.	Beardstown	Wilkins, Jefferson	Hedron
Treasure, William	Essex	Willey, Hiram	S. Danville
Tucker, Charles	Mineral	Williams, Joseph	Mode
Tucker, Edward	East Peoria	Williams, Andrew	N. Alton
Tucker, P. F.	Whitehall	Williams, James F.	Kewanee
Tulk, M. B.	Colchester	Williams, Jerome	Tiskilwa
Tully, P. F.	Brimfield	Williams, Joseph	Preemption
Turner, John	Lewistown	Williams, W. J.	Colchester
Turner, George	Lewistown	Williams, W. P.	Laoc
Twiney, William A.	Shelbyville	Williams, Oren	Tiskilwa
Tygett, John	Carbondale	Williams, Daniel	Rapatee
Tyla, H.	Wataga	Williams, Alfred	Boden
Tyler, Church	St. David	Wilkerson, J. F.	Grape Creek
Tyson, Thomas	Marion	Willie, Alex.	Oraville
		Willis, Charles	Mapleton
Underwood, J. H.	Equality	Wilson, George	West Jersey
		Wilson, John	Colchester
		Wilson, M. H.	Duquoin
		Wilson, A. E.	Macomb
Vandyke, William	Canton	Wilson, Thomas E.	Blandinsville
Van Norman, Samuel P.	Mapleton	Wilson, Joseph	Swan Creek
Varner, Wilson	Marietta	Wilson, Anthony	Danville
Vaughn, William	Jubilee	Wilson, George	Marion
Vaughn, Elijah	Jubilee	Wilson, Arthur	Carterville
Vaught, John H.	Shawneetown	Wilstead, Thomas	Rio
Vezain, George	Ottawa	Winchouse, W.	Danville
Vickery, Henry	Pottstown	Wings, James	La Harpe
Vogt, Leon	Shawneetown	Wirming, Robert	Sato
		Wisley, H. C.	Vergennes
Wages, E.	Canton	Wiseman, Ernst	Peoria
Wagner, Louis M.	Belleville	Wolf, Jacob	Danville
Wagner, John W.	Millstadt	Wonderling, Henry	Danville
Waine, James	Atkinscn.	Wood, Benjamin	Pinckneyville
Wainwright, Arthur	Sweetwater	Woodcock, Wm. H.	Etherly
Wahlburg, Albert	Knoxville	Wood, Sam'l	Saline Mines
Walck, Peter S.	Farmington	Woodbury, John	Green River
Walker, James	Mapleton	Woods, James	St. David
Wallis, D. J.	New Burnside	Woodard, John	Oakwood
Walsh, John	Truro	Woodward, W.	Soperville
Walsh, John	Milan	Woodward, Frederic	Fairmount
Walton, A. W.	Princeton	Wonders, Henry	Streator
Ward, J. D.	Pulley's Mill	Worthington, H.	Streator
Watkins, W. J.	Danville	Wren, T. K.	Morris
Watts, Alexander	Paris	Wright, Joseph	Fairbury
Watson, William	Wyoming	Wright, Hiram	Danville
Watson, Jas.	Carterville	Wuninsiling, James	Sheffield
Wayland, James	Colchester	Wytcherley, Ed.	Peoria
Weimer, J. R.	Cambridge		
Wearmouth, Thomas	Youngstown	Yerman, Timothy	Cuba
Webster, William	Colchester	Young, John A.	Carterville
Webster, A. J.	Danville	Young, S. J.	Griffin
Weiss, W.	Belleville		
Wells, E. W.	Briar Bluff	Zetter, Albert	Freeburg
Welford, T. H.	Aosher	Zink, G. W.	Peoria
West, John C.	Pine Grove	Zah, John	Mt. Pulaski
West, John A.	Pine Grove		

## HOISTING ENGINEERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE--This list includes all the hoisting engineers to whom certificates have been issued prior to Jan. 1, 1906.

Name.	Postoffice.	Name.	Postoffice.
Abcock, C. F.	Nilwood	Barber, William G.	Tilden
Adlen, Henry	Breese	Barr, Frank	Centralia
Adams, Nelson	Lincoln	Barton, C. W.	Cable
Adams, Wm. H.	Braidwood	Barton, Charles W.	Fairmont
Am-worth, Samuel, Jr.	Taylorville	Bateman, Harry	Murphysboro
Antken, T. G.	Tilden	Bateman, R.	Murphysboro
Antken, J. S.	Tilden	Bates, Thomas W.	Winchester
Alexander, Henry	Oglesby	Bath, Ameston	Cuba
Alexander, W. A.	Roseboro	Barwick, Charles	Cartersville
Alan, Edward	Collinsville	Raumgartner, Geo. J.	Edwardsville
Allan, Joseph	Collinsville	Beard, Charles A.	Streator
Allen, David	Collinsville	Beatty, James H.	Mascoutah
Allen, C. F.	Troy	Beatty, Geo. W.	Mascoutah
Allen, C. H.	Seneca	Beatty, Nepha	Mascoutah
Allgood, William	Springfield	Beck, Peter L.	Springfield
Altman, H. P.	Collinsville	Becker, Fritz	Mt. Olive
Anderson, Henry	Lincoln	Becker, F. M.	Sandoval
Anderson, J. E.	Pinckneyville	Beharrell, Alfred	Mapleton
Anderson, W. C.	Elmwood	Behrend, A. D.	Springfield
Anderson, Norman A.	Princeville	Reeby, William	Springfield
Anderson, Z. B.	Starta	Reese, John E., Jr.	Belleville
Anderson, Chas. F.	Belleville	Reese, Charles H.	Belleville
Andrews, Solomon	Girar	Reli, Chris	Sherrard
Anthony, John C.	Belleville	Reli, Mark	Danville
Appleby, John	East Peoria	Reli, Frank	Tallula
Appleton, Thomas	Vandal	Relt, W. H.	Centralia
Arthur, Joseph	Barclay	Relts, Joseph E.	Belleville
Aschold, David	Freeburg	Reltz, A.	Equality
Armstrong, Martin	Duncan	Rennett, Wm.	Stamton
Armstrong, C.	Murphree	Rennight, J. E.	Pawnee
Armstrong, William C.	Marion	Rently, George	Springfield
Asaradi, Chas. C.	Pana	Renton, Poolie R.	Herrin
Asch, Joseph L.	Murphysboro	Rervenuto, Charles	Dawson
Asch, Joseph	Murphysboro	Rerens, Peter H.	Coal City
Atkin, Robert N.	Tilden	Berkley, N. T.	Cuba
Atwater, Stephen	Clark City	Berlin, Henry	Pana
Averill, C. F.	Colchester	Bierert, J. O.	Spaulding
Avery, William	Lon. Station	Bizelow, A. E.	Spaulding
Av, Henry	Edwardsville	Bizess, W. A.	Herrin
		Bizelle, Jacob	Girard
		Blake, Albert	Streator
Bailey, James F.	Westville	Blackman, Ben.	Dawson
Bailey, John	Braidwood	Blacklock, Charles F.	Niantic
Bailey, Root	Sumfield	Blair, George	Streator
Baile, Robert	Starta	Blair, Jessie	Norris
Baker, David N.	Springfield	Black, Jas. A.	Troy
Baker, James F.	Westville	Bloemberg, Albert	Sherrard
Baker, C. H.	Farmington	Blois, Joseph M.	Kewanee
Balser, Henry	Springfield	Boeder, J.	Gilchris
Balmain, Edward	Assumption	Boettcher, Alfred	Freeburg
Barnhill, H. G.	Kennett	Boggs, Dow J.	Kewanee
Barn, C. A. B.	Herrin	Boggs, F. W.	Galva
Barker, C. E.	Duquoin	Boggs, G. W.	Galva
Bart, C. W.	Duquoin	Bohler, Henry E.	Mt. Olive
		Bohlander, Edward	Pekin

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Bolton, Mark	Gilchrist	Carmichael, Thos.	Springfield
Bookstaver, Jos.	Duquoin	Carmichael, John	Berlin
Honnett, A. H.	Collison	Carpenter, Chas.	Girard
Bonstead, W. P.	Coal City	Carpenter, James T.	Oakwood
Boots, James Franklin	Germantown	Carr, Robert H.	Freeburg
Boring, Frank L.	Odin	Carrier, M. E.	Carrier Mills
Boroughs, Wade	Athens	Carrington, Eugene	Moweaqua
Boston, William H.	Murphysboro	Carsell, Hugh	Moweaqua
Boswell, William	Dunfermline	Carter, Albert J.	Cutler
Bolles, Wm.	Auburn	Carter, Roy	Barclay
Bottomley, B.	Paisley	Carter, W. E.	Barclay
Boul, Leonard	Belleville	Catlin, Horace W.	Harrisburg
Bourne, Archibald	Marion	Caudle, James F.	Sorento
Bradbury, R. D.	Carbondale	Caulk, Arthur	Sorento
Bradenburg, F.	Belleville	Cearing, Samuel A.	Springfield
Bradley, Simon	Edwardsville	Chance, Jesse, Jr.	Farmington
Brants, Elit. G.	Pekin	Chapman, J. B.	Petersburg
Bradley, Wm. P.	Viriden	Chapman, William E.	Salisbury
Brady, James G.	Peoria	Charles, Thomas	Coal City
Brase, S. R.	Centralia	Charpenter, Joseph	Braidwood
Brayfield, Newton	Carterville	Chesney, O.	Breese
Bretz, Anton	Germantown	Chester, David	Springfield
Bretz, Matt	Belleville	Chew, Oliver	Sato
Brigham, Robert	Tamaroa	Chew, B. R.	Carlinville
Broderick, James	Braidwood	Chitwood, William H.	Catlin
Bromley, Charles	Coal City	Chorlton, Thomas	Birkner
Bromley, George, Sr.	Catlin	Church, Van L.	Duquoin
Bromlery, George, Jr.	Kellyville	Church, William	Marissa
Broughton, Geo. C.	Coffeen	Christ, Philip	Wenona
Brother, David	Mt. Pulaski	Clark, Corey	Coal City
Brown, George A.	Iles Junction	Clark, Harvey	Westville
Brown, H. L.	Duquoin	Clark, Christopher	Decatur
Brown, James A.	Springfield	Clark, C. C.	Girard
Brown, Thomas	Moweaqua	Clark, C. N.	Duquoin
Brown, Wm. F.	Pontiac	Clark, John	Marquette
Brown, Wm. H.	Duquoin	Clark, John R.	Viriden
Brown, Edward E.	Sparta	Clark, John	Viriden
Brown, William	Murphysboro	Clark, Quintin	Braidwood
Brown, Marion	Taylorville	Clark, Henry L.	Petersburg
Brubeck, John W.	Pawnee	Claudin, Josh	Pekin
Brueggemann, Michael A.	Belleville	Clayton, William	Collinsville
Bruggeman, Geo	Nashville	Clayton, D. J.	Johnson City
Bruce, James	Athens	Clickner, C. S.	Witt
Buckley, Calvin W.	Sparland	Clifford, Michael	Kewanee
Bunge, Geo.	Belleville	Clifton, William H.	Sparland
Burbridge, J. W.	Brereton	Cline, John	LaSalle
Burgess, Charles E.	Greenvew	Clink, Charles	Springfield
Burke, Riley M.	DeSoto	Coan, James	Westville
Burkholder, Oliver W.	Dewmaine	Coatney, Grant	Fairmount
Burlinson, Aaron	Percy	Cobern, W. A.	Princeville
Burr, Chauncey	Coulterville	Collinton, Chas.	Belleville
Bullock, William	Collinsville	Collingwood, Wm.	Greenvew
Burngarner, Ross	Ledford	Collingwood, Albert E.	Springfield
Burke, Robert	Oakwood	Collins, Walter	Mt. Vernon
Burrell, G. K.	Farmington	Collins, John	Birkner
Burrows, William	Williamsville	Colton, George C.	Carterville
Butcher, Thomas	Murphysboro	Colwell, W. P.	Canton
Butcher, Hansel	Georgetown	Compton, James	Colfax
Butt, Thomas R.	Litchfield	Compton, Stephen B.	Sorento
Byrne, Michael	LaSalle	Conley, John	Streator
		Connelly, J. J.	Murphysboro
		Conway, John	Collinsville
		Conway, Michael	Ladd
Cagle, Alfred	Marion	Cook, G. E.	Hallidayboro
Cain, Daniel	Ridgley	Cook, John	Peoria
Cain, Daniel P.	Ridgley	Cook, Wm. D.	Westville
Cain, John	Ridgley	Cook, Tom	Duquoin
Callear, Isaac	Pottstown	Cook, John	Elkville
Callier, Geo. H.	Peoria	Cooper, J. H.	Nilwood
Cameron, Daniel	Pana	Cornellus, Richard	Fairmount
Camp, John R.	Westville	Cottle, Elmer	Buffalo
Campbell, A.	Peoria	Cotton, George	Hallidayboro
Campbell, Fred	Sorento	Cox, John	Ledford
Campbell, T.	Coal City	Cox, William	Rutland
Campbell, W. J.	Coal City	Craddock, Robert	Auburn
Campbell, Wm. T.	Cable	Craft, George	Kangley
Cantrell, H. T.	Farmington	Craig, Daniel G.	Danville
Carlson, Alexander	Galva		



*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Craig, Daniel.....	Danville.....	Dillon, John.....	Auburn.....
Crenshaw, D. B.....	Harrisburg.....	Dillon, William.....	Auburn.....
Crenshaw, J.....	Marion.....	Dixon, Frederick W.....	Springfield.....
Crews, Jesse.....	Hallidayboro.....	Dixon, Geo.....	Wenona.....
Crinigan, Barney.....	LaSalle.....	Dodd, Samuel H.....	Pottstown.....
Crofts, James.....	Cardiff.....	Dodwell, Edward.....	Decatur.....
Croker, Edward.....	Marquette.....	Donaldson, James.....	Kangley.....
Crouch, Millard F.....	Nilwood.....	Doolin, E. W.....	Pontiac.....
Cryder, James F.....	Divernon.....	Dochring, Fred.....	Mt. Olive.....
Cruikshanks, Robert.....	Middle Grove.....	Douck, John.....	LaSalle.....
Cruikshanks, John.....	East Peoria.....	Donaldson, J. W. Jr.....	Dunfermline.....
Cruikshanks, William A.....	East Peoria.....	Donnelly, J.....	Springfield.....
Cruthers, Zina B.....	Taylorville.....	Doolin, E. J.....	Pontiac.....
Cummings, George.....	Pana.....	Dougherty, Joseph.....	Taylorville.....
Cumming, Geo. A. P.....	Gardner.....	Dove, C. W.....	Glen Carbon.....
Cumming, Geo. P.....	Sparland.....	Dowies, Fritz C.....	Breese.....
Cummings, Robert W.....	Sparta.....	Dowler, John.....	Auburn.....
Cunningham, Wm.....	Swanwick.....	Dowling, Ira F.....	Springfield.....
Cutler, Frank H.....	Princeville.....	Downing, Robert D.....	Bartonville.....
Cutler, Scott.....	Duquoin.....	Downes, J. L.....	Johnson City.....
		Downs, L.....	Cuba.....
Daenzer, Anton.....	Glen Carbon.....	Drischel, Fred W.....	Taylorville.....
Dalhour, Frank C.....	Staunton.....	Drake, William.....	Streator.....
Dalton, Isam.....	Yates City.....	Dray, John.....	Troy.....
Daly, Thomas.....	Diamond.....	Drennan, L. H.....	Blue Mound.....
Dana, John W.....	Springfield.....	Duffy, Glenn E.....	Collinsville.....
Daniel, James.....	Belleville.....	Dugg, B. A.....	Collinsville.....
Daniels, Joel.....	Belleville.....	Duncan, J. R.....	LaSalle.....
Dankins, Thos. J.....	Braceville.....	Dunlap, Bert.....	Nokomis.....
Darmstadter, Wm.....	New Athens.....	Dunn, L. A.....	Duquoin.....
Dave, R. J.....	Glen Carbon.....	Dunn, William L.....	Clark City.....
Davenport, George.....	Harrisburg.....	Dunsmore, Thomas.....	Springfield.....
Davenport, Thomas.....	Harrisburg.....	Dunstedler, William S.....	Edwardsville.....
Davis, B. D.....	Coffeen.....	Durham, James D.....	Lake Creek.....
Davis, Carl.....	St. John.....	Durham, George.....	Glen Carbon.....
Davis, Cyrus.....	Marion.....	Dyer, Harry.....	Duquoin.....
Davis, C. E.....	Divernon.....		
Davis, Frank.....	St. John.....	Easley, H.....	Taylorville.....
Davis, Jas. A.....	Hillsboro.....	Eaton, A. C.....	Duquoin.....
Davis, Chas. W.....	Edinburg.....	Eaton, Robert.....	Sunfield.....
Davis, Jackson.....	Athens.....	Easton, George.....	Willisville.....
Davis, E. E.....	Auburn.....	Eccleston, John.....	Streator.....
Davis, Frank.....	Lincoln.....	Eddy, Evermont.....	Athens.....
Davis, Harry J.....	Duquoin.....	Eastham, G. A.....	Girard.....
Davis, James P.....	Belleville.....	Edwards, George W.....	Springfield.....
Davis, John W.....	Lake Creek.....	Elder, Alexander C.....	Marissa.....
Davis John.....	Belleville.....	Elliott, Clarence.....	Bryant.....
Davis, L. D.....	Coffeen.....	Elliott, H. H.....	Centralia.....
Davis, Thomas.....	Belleville.....	Edwards, Thomas.....	Spring Valley.....
Davis, Havin.....	Eldorado.....	Ekin, Daniel B.....	Springfield.....
Davis, Wm. H.....	Fairbury.....	Ekin Henry.....	Ridgley.....
Davis, Charles A.....	Belleville.....	Emans, Ransom R.....	Farmington.....
Davison, John G.....	St. John.....	Ellis, Albert.....	Cable.....
Davison, Joseph.....	Sherrard.....	Elemendorf, E.....	Belleville.....
Dawson, Van C.....	Spring Valley.....	Elmore, V. M.....	Coffeen.....
Dawson, John C.....	Streator.....	Emery, H. W.....	Greenville.....
Day, Benj. F.....	Peoria.....	English, Thomas.....	Streator.....
Deans, Robert.....	Belleville.....	Erisman, Jacob D.....	Niantic.....
Deaton, L. B.....	Tallula.....	Erisman, Jesse.....	Niantic.....
Deaton, William S.....	Greenview.....	Estes, W. B.....	Danville.....
DeBacher Thomas.....	Elmwood.....	Evans, Albert.....	Glen Carbon.....
Decker, William.....	Oglesby.....	Evans, Roderick B.....	Girard.....
Dee, Henry.....	Glen Carbon.....	Evans, Thomas.....	Spaulding.....
DeJarnett, Thomas.....	Mt. Vernon.....	Evans, C. L.....	Viriden.....
Delmore, Frank.....	Springfield.....	Evans, Price.....	Bissell.....
Delapp, Robert E.....	Willisville.....	Evans, W. E.....	Danville.....
Delorey, William.....	Westville.....	Evans, Wm. L.....	Eldorado.....
Dempsey, Columbus.....	Harrisburg.....	Eyerly, John C.....	Canton.....
Dent, Will.....	Diamond.....	Eytman, Frank.....	Spring Valley.....
Denton, Fred.....	Petersburg.....	Eydman, Henry.....	Coulterville.....
Derrington, Walter.....	Herrin.....	Eynon, David.....	Duquoin.....
Denton, O. N.....	Coffeen.....		
Denton, William.....	Petersburg.....	Fabry, A.....	Braceville.....
Derrington, Clark.....	Herrin.....	Fahay, John.....	Decatur.....
Devlin, Francis.....	Clark City.....		
Dick, Robert.....	Sunfield.....		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Falkenstein, George A.	Astoria	Gibson, J. W.	Sherrard
Farmer, Frank	Bloomington	Gibson, Henry	Coal City
Farley, James	Riverton	Gilchrist, H. M.	Gilchrist
Farwood, L. C.	Springfield	Gilmore, J. E.	Hillsboro
Fay, John E.	Murphysboro	Gibson, R. W.	Danville
Fenton, M. H.	Streator	Girfen, Henry	Troy
Ferguson, J. B.	Divernon	Glaken, Hugh	Coal City
Ferguson, John J.	Spring Valley	Gladdens, Wm.	Coal City
Ferren, Edward	Barclay	Gladson, E.	Duquoin
Ferris, W. H.	Marquette	Gladson, F.	Duquoin
Field, Berton	Elmwood	Glass, Reuben	Edwardsville
Filligham, J. A.	Canton	Glennon, Philip	Williamsville
Finnigan, Thomas J.	Springfield	Glennon, John	Riverton
Finegan, Wm. H.	Springfield	Glover, Frederick	Peoria
Fischer, Phillip	Lenzburg	Goalby, Arthur A.	Percy
Fisher, George	Staunton	Goalby, B. F.	Stockey
Fisher, Patrick	Kangley	Goalby, Frank H.	Belleville
Fitch, Charles	Carterville	Goalby, W. A.	Spillertown
Fitzsimmons, Maurice	Peru	Goddard, Wm. H.	Lake Creek
Flesher, A.	Taylorville	Goddard, W. L.	Pana
Flesher, O.	Clay City	Goforth, Wm.	Herrin
Fletcher, Henry A.	Ladd	Golliher, H.	Petersburg
Fletcher, I. W.	Springfield	Gordon, E. J.	O'Fallon
Fogerson, Andrew	Central City	Gordon, Alex. B.	Lincoln
Foote, Charles	Westville	Gorham, A. B.	New Douglas
Foote, Wm.	Westville	Gorman, J.	Springfield
Forister, Robert	Murphysboro	Gottschalk, Fred	Sato
Forister, Wm.	Murphysboro	Gould, George	Green Ridge
Fortney, John W.	Kinmundy	Gowin, Curtis	Green Ridge
Foster, Albert	Elmwood	Gowin, Frank	Kewanee
Foster, A. J.	Litchfield	Grace, John T.	Bloomington
Fox, Frank L.	Assumption	Graham, L. A.	Springfield
Fox, Fred	Middle Grove	Graham, William	Taylorville
Fox, Wm.	Taylorville	Graden, Orville B.	Virde
Fox, James B.	LaSalle	Graham, Reuben	Pekin
Fox, Arthur	Springfield	Grant, Lewis	Springfield
Fox, Thomas	Lincoln	Gray, Thomas	Springfield
Frain, Austin	Ridge Prairie	Gray, Chas. H.	Ladd
Frankland, Tim	Streator	Greaves, Walter	Canton
Freeman, M. F.	Shelbyville	Green, Joseph	Braidwood
Freeman, E. F.	Duquoin	Green, Daniel	Wilmington
Frick, U. B.	Lake Creek	Green, Roy	Coffeen
Friend, J. W.	Collinsville	Green, K. A.	Marissa
Frier, Jacob	Ormsby	Green, Thomas	Streator
Friend, E. A.	Collinsville	Green, Wm. H.	Hillsboro
Friend, Wm. L.	Collinsville	Greenhalgh, James	Hillsboro
Friesland, O. M.	Salisbury	Greenhalgh, William	Pontiac
Fritz, Gustav	Breese	Greenman, Martin	Greenview
Fritz, William	Lebanon	Greener, George	Streator
Fry, D. W.	Clark City	Grierson, John	Girard
Frye, Wm. S.	Coal City	Grimmett, Chas. C.	Kewanee
Ferguson, S. P.	Strasburg	Grice, Albert	Birkner
Fuller, John S.	Springfield	Grieves, David	Birkner
Fuston, D. H.	Murphysboro	Grieves, James	Kewanee
		Griffin, John O.	Belleville
Gahl, Fred T.	St. John	Groom, Alexander	Belleville
Gallagher, Geo.	Lebanon	Groom, John, Sr.	Belleville
Galutia, C. M.	Carterville	Groom, James	Belleville
Garrett, Bert	Mowequa	Groom, Wm.	Belleville
Gombler, H. H.	Ziegler	Groom, John	Belleville
Gandy, James W.	Peoria	Groover, Harmon, M.	Canton
Gaskins, Asa	Harrisburg	Grubb, Michael	Riverton
Gately, Bernard	Diamond	Geistdorfer, Fred.	DeSoto
Gately, James	Seatonville	Guppy, Edgar	Bartonville
Gasnell, George W.	Herrin	Guy, D. F.	Springfield
Gates, Wm. S.	Kankakee	Gurick, Howard	Litchfield
Gallagher, Peter	Clark City	Gurick, L. E.	Litchfield
Gaugham, James	Braidwood	Guthrie, T. E. B.	Marissa
Geer, Benjamin H.	Wolcott		
Geer, U. S.	Pekin	Hackett, Owen	Spaulding
Geer, Chauncy N.	Wolcott	Haddick, Wm. L.	Sherrard
Galmour, Allen	Diamond	Haensel, Edward	Lenzburg
Gerner, Fred	Danville	Haensel, David	Lenzburg
Gerjetts, Harry	Athens	Hagler, Charles	Fredonia
Geyer, J. A.	Wanlock	Hale, Wm. T.	Troy
Gibson, John	Sandoval	Hale, James	Dunfermline



*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Johnstone, Thomas.....	Pontiac.....	Lambert, George W.....	LaSalle.....
Johnston, Thomas B.....	Freeburg.....	Lambert, Wm.....	Middletown.....
Jones, George.....	Belleville.....	Lane, Charles C.....	Farmington.....
Jones, David H.....	Murphysboro.....	Lanhan, John W.....	Danville.....
Jones, Henry E.....	Staunton.....	Larkin, James G.....	Athens.....
Jones, John P.....	Marissa.....	Larkin, Wm.....	Taylorville.....
Jones, Jonathan, Jr.....	Barclay.....	Laughrey, Jonathan P.....	Carbon Cliff.....
Jones, Vernon L.....	Marissa.....	Lavallier, U. S.....	Chenoa.....
Jones, Jonathan, Sr.....	Marissa.....	Lawson, George.....	Cable.....
Jones, Joseph.....	Staunton.....	Layne, J. W.....	DeSoto.....
Jones, Logan.....	Marissa.....	Ledbetter, George.....	Sorento.....
Jones, Felix E.....	Barclay.....	Leek, Carroll.....	Hallidayboro.....
Jones, Thomas.....	Muncie.....	Leeper, C. W.....	Equality.....
Jones, William.....	Marissa.....	Lehman, Phillip.....	Lebanon.....
Jones, William.....	Braceville.....	Lemons, J. L.....	Girard.....
Jones, John.....	Grape Creek.....	Leslie, G. Lutton.....	Rutland.....
Jones, James W.....	Pana.....	Leslie, George.....	Gardner.....
Jones, John.....	Marissa.....	Leslie, N. B.....	Braidwood.....
Jones, R. T.....	Kewanee.....	Lewis, Alvan.....	Catlin.....
Jordan, Robert.....	Streator.....	Lewis, Clayton.....	Carriers Mills.....
Judd, Charles E.....	Edwardsville.....	Lewis, James.....	Canton.....
Kalebaugh, Clinton H.....	Astoria.....	Lindsey, J.....	Oglesby.....
Kalons, Frank.....	Glen Carbon.....	Lindskey, Martin H.....	Streator.....
Karnes, Geo. R.....	Galatia.....	Lindstrom, Oscar.....	Sherrard.....
Karney, Emory O.....	Hallidayboro.....	Linsky, James.....	Oglesby.....
Kasselman, Frank H.....	Worden.....	Linsky, Patrick J.....	Braidwood.....
Keating, Edward F.....	Streator.....	Little, G. E.....	Edwardsville.....
Keating, Richard.....	Streator.....	Little, Peter.....	Peoria.....
Kelley, James D.....	Carbon Hill.....	Little, Thomas.....	Murphysboro.....
Kelly, Martin.....	Toluca.....	Lockhart, Lewis.....	Niantic.....
Kelley, Robert D.....	Carbon Hill.....	Lockie, G. O.....	Cartersville.....
Kelly, Charles.....	Streator.....	Lockie, William.....	Cartersville.....
Kelly, N.....	Petersburg.....	Loding, Charles. A.....	Loding.....
Kelly, George.....	Worden.....	Loebel, Frank.....	Trenton.....
Kelly, Richard V.....	Cantrall.....	Loefler, Adolph A.....	O'Fallon.....
Kenner, Christian.....	Belleville.....	Long, Noah B.....	Pontiac.....
Kenady, Fred A.....	Cambridge.....	Long, Edward.....	Norris.....
Kenaday, Perry.....	Cambridge.....	Longerbon, L. T.....	Cantrall.....
Kennedy, W. J.....	Edwardsville.....	Lozin, P.....	Lincoln.....
Kearney, John.....	Peoria.....	Lucht, M. F.....	Mt. Olive.....
Kerchner, Howard.....	Belleville.....	Lucey, Michael.....	Ridgely.....
Kerchner, John.....	Belleville.....	Lundeen, Frank, W.....	Galva.....
Kerns, Samuel.....	Springfield.....	Lundy, J. P.....	Mt. Pulaski.....
Kessick, Chas. W.....	Decatur.....	Lundley, Ralph.....	Ridge Prairie.....
Kester, Charles E.....	Raymond.....	Lynch, John B.....	Muncie.....
Kidd, Alonzo.....	Farmount.....	Lynch, M.....	Herrin.....
Kilbride, T. C.....	Farmington.....	Lyons, A.....	Riverton.....
Killinger, C.....	Collinsville.....	Maasburg, H. C.....	Pinckneyville.....
Killinger, Harry.....	Germantown.....	Mander, Charles H.....	Staunton.....
Killinger, John.....	Collinsville.....	Madden, Harvy.....	Danville.....
Kimball, Joel L.....	Hillsboro.....	Manley, Leo.....	Coffeen.....
Kimber, John.....	Ladd.....	Mann, John B.....	Sherman.....
King, John.....	Cartersville.....	Mainwaring, James.....	Braceville.....
Kingerfus, Wm.....	Belleville.....	Mair, Max.....	Lebanon.....
Kinghom, John.....	Staunton.....	Malcolm, Wm. J.....	Braceville.....
King, Alexander, Sr.....	Cartersville.....	Maltby, Edward.....	Braidwood.....
King, Alexander, Jr.....	Cartersville.....	McAddams, John W.....	Percy.....
King, L. B.....	Smithboro.....	McAllister, Thomas.....	Hallidayboro.....
King, Charles.....	Collinsville.....	McCann, David.....	Lincoln.....
Kincannon, John.....	St. John.....	McCarthy, John.....	Lincoln.....
Kirby, Thomas, Jr.....	Peru.....	McCartney, C. F.....	Alexis.....
Kirshner, Frank.....	Belleville.....	McCauley, Aaron.....	Streator.....
Klaus, Louis.....	Belleville.....	McClelland, A. J.....	Cuba.....
Klein, George.....	Gillespie.....	McConachie, Ed.....	Auburn.....
Klingenfus, Edward.....	Belleville.....	McCormack, James J.....	Springfield.....
Klinkner, Frank.....	Colfax.....	McCulley, G. L.....	Pawnee.....
Knapp, Enoch.....	Assumption.....	McCunsky, Tobias.....	Assumption.....
Koenig, George.....	LaSalle.....	McCurdy, J.....	Taylorville.....
Koombs, James.....	Marion.....	McDonald, John.....	Springfield.....
Kossieck, George.....	Decatur.....	McDonald, W. H.....	Pana.....
Krully, Andrew.....	Braceville.....	McDonald, Wm. J.....	Percy.....
Kuhn, Fred A.....	Trenton.....	McDonald, Peter G.....	Carbon Hill.....
Lamb, Wm. E.....	Coal City.....	McDonald, Frank R.....	Athens.....
		McFarland, F. E.....	Murphysboro.....

*Mine Managers (Ten Men), Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Robbins, J. W.	Glasford	Smith, Thomas B.	Streator
Robinson, Benjamin	Wyoming	Smith, Thomas	Ottawa
Robinson, William	Colchester	Smith, Charles	Sparland
Robinson, J. M.	Elmira	Smith, John	Danville
Robinson, John W.	Wyoming	Smith, Leonard	Atkinson
Robinson, Robert	Wyoming	Sornberger, John	Victoria
Robinson, Walter	Mapleton	Sowerly, Joseph	Streator
Robinson, William H.	Macomb	Spangler, H.	Danville
Roberts, Kvan D.	Streator	Spangler, Charles	Danville
Roberts, David	Orchard Mines	Sparks, Charles	Crab Orchard
Roberts, Henry F.	Modena	Sparks, Edgar	Astoria
Roddie, Charles	Ipava	Spencer, Charles	Victoria
Roddie, Wm.	Ipava	Spiller, Henry	Herrin
Rodell, Frank	Wataga	Spitzner, Jacob	Equality
Rogers, David	Kickapoo	Sponsler, Elmer	Carbondale
Rohr, Joseph C.	Alexis	Springman, Ed.	Brighton
Roland, Adolph	Grape Creek	Stader, W. H.	Equality
Romine, Wilson	Youngstown	St. Clair, James A.	Macomb
Romine, William	Roseville	Steavens, Isaac	Cuba
Ronk, G. H.	Canton	Staton, Joseph	Pekin
Rook, John	Brimfield	Stevens, John	Cuba
Roosa, V. L.	Pleasant View	Stewart, Wm.	Colchester
Rose, James	Equality	Stine, William	Danville
Royse, Sylvester	South Danville	Stockert, Jacob F.	Arenzville
Ryan, Phillip	Ashland	Stoehr, Edward	Carlton Hill
Russell, John R.	Danville	Stone, Isaac	Colchester
		Stone, William	Colchester
		Stone, Charles	Colchester
		Stone, Thomas	Carbon Cliff
Sackville, James	Coal Valley	Stookey, Elijah	Colchester
Sample, John	Laura	Storey, Harry	Toulon
Saunders, W. G.	Monica	Straley, J. E.	Canton
Saunders, David T.	Peoria	Straley, James H.	Norris
Saunders, John J.	Peoria	Straud, Charles	Roseville
Savill, Charles A.	Canton	Stretch, William	Shelbyville
Savill, Jesse	Modena	Strewbinger, Conrad	French Village
Scanlon, M. C.	Canton	Stricklin, Thomas A.	Marion
Schaffer, William	Danville	Stoeton, O. F.	Rushville
Schmidt, August	Millstadt	Strong, Ralph	Pleasant View
Schmidt, George	Millstadt	Strong, William	Junction
Schmidgall, Jno. L.	Murphysboro	Strong, J. P.	Shannectown
Schneider, Joseph G.	Pinckneyville	Stufflebeam, Marion	St. David
Scholte, William	Kickapoo	Stroud, William	Marion
Schroeder, Fred C.	Coal Valley	Suggett, William	Breeds
Schultz, Fred	Braceville	Summerson, John	Coal Valley
Scott, John	Modena	Summerson, Robt.	Coal Valley
Scott, James	Wyoming	Suydam, John	Victoria
Scott, Frank	Danville	Swanson, Axel	Cable
Selbrick, J.	Monmouth	Swanson, Otto	Cable
Selbek, John	Braidwood	Swanson, Andrew	Colchester
Sellars, George	Winchester	Swenson, John	Danville
Seffer, Henry	Peoria	Sydall, Peter	North Alton
Sergeant, Frank	Belleville	Swafford, William	Duquoin
Schaffar, Michael	Ava	Swan, Chas. W.	Marion
Shafer, Solomon	Summum	Switzer, James	Astoria
Shea, John G.	Danville	Swisher, Trumont	Danville
Sherbine, Abe	Macomb		
Sherratt, James	E. Peoria		
Shreffler, R. D.	Pekin		
Shelton, W. J.	Cottage Grove	Tarpley, W. S.	Marion
Shepherd, Wm. A.	Catin	Tanner, Anderson	Absher
Shore, William	Chandlerville	Tattersoll, George	Seneca
Silvis, S.	Carbon Cliff	Taylor, James	Belleville
Simmons, Alfred B.	Roodhouse	Taylor, Robert	Princeville
Simons, William H.	Monica	Taylor, Francis	Blandinsville
Sincos, John	Alexis	Taylor, Jno. S.	Neponset
Simpson, Charles	Wataga	Taylor, J. W.	New Burnside
Simpson, Newton M.	Ray	Teague, James	Winchester
Simpson, Joseph	Youngstown	Teel, James	Industry
Sitting, H. P.	Stonefort	Telfer, John K.	Morris
Sliment, James	Center Station	Telfer, John W.	Morris
Sloan, Miles B.	Etherly	Tesdale, Henry	Morris
Smith, John	Atkinson	Thomas, Lewis E.	Danville
Smith, A. J.	Saline Mines	Thompson, Jacob	Grape Creek
Smith, Geo. W.	Colchester	Thompson, James F.	Ray
Smith, James	Princeton	Thompson, D. L.	Marion
Smith, B. F.	Modena	Thompson, Joseph	Etherly
Smith, John	Frederick	Thompson, Joe	Grape Creek

*Mine Managers (Ten Men), Certificates of Competency—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Thomas, William.....	Streator.....	Westerlund, John.....	Streator.....
Thomas, James.....	Danville.....	Whalen, M., Jr.....	Colchester.....
Thomas, George.....	Sheffield.....	Wheelhouse, Samuel D.....	Rushville.....
Thomas, Samuel.....	Catlin.....	Whittaker, Aaron.....	Roodhouse.....
Thurston, John H.....	Wyoming.....	White, Charles F.....	Danville.....
Tilley, Wm.....	Duquoin.....	White, Charles.....	Wyoming.....
Todd, Ralph.....	Kewanee.....	White, M. C.....	Pawnee.....
Todd, Geo. B.....	Catlin.....	White, Henry.....	Elmwood.....
Todd, John.....	Victoria.....	White, Wm. J.....	Bartonville.....
Toney, A.....	Grape Creek.....	White, John A.....	Frederick.....
Tompkins, C. S.....	Mineral.....	Whynn, Wm. E.....	Coal Valley.....
Tompkins, Harvey.....	St. David.....	Wilkinson, M. C.....	Danville.....
Towner, L. H.....	Bluff City.....	Wilcox, Wilson.....	Astoria.....
Tracy, Edwin F.....	Beardstown.....	Wilkins, Jefferson.....	Hedron.....
Treasure, William.....	Essex.....	Willey, Hiram.....	S. Danville.....
Tucker, Charles.....	Mineral.....	Williams, Joseph.....	Mode.....
Tucker, Edward.....	East Peoria.....	Williams, Andrew.....	N. Alton.....
Tucker, P. F.....	Whitehall.....	Williams, James F.....	Kewanee.....
Tulk, M. B.....	Colchester.....	Williams, Jerome.....	Tiskilwa.....
Tully, P. F.....	Brimfield.....	Williams, Joseph.....	Preemption.....
Turner, John.....	Lewistown.....	Williams, W. J.....	Colchester.....
Turner, George.....	Lewistown.....	Williams, W. P.....	Laoc.....
Twiney, William A.....	Shelbyville.....	Williams, Oren.....	Tiskilwa.....
Tygett, John.....	Carbondale.....	Williams, Daniel.....	Rapatee.....
Tyla, H.....	Wataga.....	Williams, Alfred.....	Boden.....
Tyler, Church.....	St. David.....	Wilkerson, J. F.....	Grape Creek.....
Tyson, Thomas.....	Marion.....	Willis, Alex.....	Oraville.....
		Willis, Charles.....	Mapleton.....
Underwood, J. H.....	Equality.....	Wilson, George.....	West Jersey.....
		Wilson, John.....	Colchester.....
		Wilson, M. H.....	Duquoin.....
		Wilson, A. E.....	Macomb.....
Vandyke, William.....	Canton.....	Wilson, Thomas E.....	Blandinsville.....
Van Norman, Samuel P.....	Mapleton.....	Wilson, Joseph.....	Swan Creek.....
Varnier, Wilson.....	Marietta.....	Wilson, Anthony.....	Danville.....
Vaughn, William.....	Jubilee.....	Wilson, George.....	Marion.....
Vaughn, Elijah.....	Jubilee.....	Wilson, Arthur.....	Carterville.....
Vaught, John H.....	Shawneetown.....	Wilstead, Thomas.....	Rio.....
Vezain, George.....	Ottawa.....	Winchouse, W.....	Danville.....
Vickery, Henry.....	Pottstown.....	Wings, James.....	La Harpe.....
Vogt, Leon.....	Shawneetown.....	Wirming, Robert.....	Sato.....
		Wisley, H. C.....	Vergennes.....
Wages, E.....	Canton.....	Wiseman, Ernst.....	Peoria.....
Wagner, Louis M.....	Belleville.....	Wolf, Jacob.....	Danville.....
Wagner, John W.....	Millstadt.....	Wonderling, Henry.....	Danville.....
Waite, James.....	Atkinson.....	Wood, Benjamin.....	Pinckneyville.....
Wainwright, Arthur.....	Sweetwater.....	Woodcock, Wm. H.....	Etherly.....
Wahlburg, Albert.....	Knoxville.....	Wood, Sam'l.....	Saline Mines.....
Walck, Peter S.....	Farmington.....	Woodbury, John.....	Green River.....
Walker, James.....	Mapleton.....	Woods, James.....	St. David.....
Wallis, D. J.....	New Burnside.....	Woodard, John.....	Oakwood.....
Walsh, John.....	Truro.....	Woodward, W.....	Soperville.....
Walsh, John.....	Milan.....	Woodward, Frederic.....	Fairmount.....
Walton, A. W.....	Princeton.....	Wonders, Henry.....	Streator.....
Ward, J. D.....	Pulley's Mill.....	Worthington, H.....	Streator.....
Watkins, W. J.....	Danville.....	Wren, T. K.....	Morris.....
Watts, Alexander.....	Paris.....	Wright, Joseph.....	Fairbury.....
Watson, William.....	Wyoming.....	Wright, Hiram.....	Danville.....
Watson, Jas.....	Carterville.....	Wuninsiling, James.....	Sheffield.....
Wayland, James.....	Colchester.....	Wytcherley, Ed.....	Peoria.....
Weimer, J. R.....	Cambridge.....		
Wearmouth, Thomas.....	Youngstown.....	Yerman, Timothy.....	Cuba.....
Webster, William.....	Colchester.....	Young, John A.....	Carterville.....
Webster, A. J.....	Danville.....	Young, S. J.....	Griffin.....
Weiss, W.....	Belleville.....		
Wells, E. W.....	Briar Bluff.....	Zetter, Albert.....	Freeburg.....
Welford, T. H.....	Absher.....	Zink, G. W.....	Peoria.....
West, John C.....	Pine Grove.....	Zah, John.....	Mt. Pulaski.....
West, John A.....	Pine Grove.....		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Saldia, J. A.	Cartersville	Sparks, J. L.	Mt. Vernon
Sallade, George	Chatham	Sparling, Chas.	Seatonville
Sallade, J. E.	Chatham	Sparling, Henry	Seatonville
Sampson, Jos. M.	Petersburg	Spiller, Elijah	Hallidayboro
Sands, Robert K.	Marissa	Spire, Albert	Braceville
Sangrelet, Charles	Litchfield	Spence, Elmer	Farmington
Savage, Richard	Clarke City	Sprout, J. W.	Pontiac
Sawyer, V.	Staunton	Stanfel, Martin	Toluca
Sawyers, Joseph	Coal City	Stanford, J. W.	Pana
Saylor, C. F.	Murphysboro	Stanforth, F.	Wanlock
Schadt, Conrad	Rock Island	Stange, Fred	Marquette
Schaffer, Fred	Belleville	Stanton, Wm. E.	Colchester
Shannessy, Thos.	Braidwood	Stedman, Edgar	Missionfield
Scheffler, Julius	Pekin	Stedman, Robert, Sr.	Danville
Schramm, Charles	Belleville	Steel, E. H.	Salem
Scharinck, Frank	Edwardsville	Steinheimer, Theodore	Lenzburg
Schmacker, Herman	Glen Carbon	Stephen, C. H.	Spring Valley
Schoolcraft, L.	Cartersville	Stewart, L. A.	Mt. Vernon
Schroeder, Charles	Mt. Olive	Stewart, Daniel	Streator
Schroeder, Henry	Mt. Olive	Stewart, James C.	Carbon Hill
Schneider, Fred W.	Staunton	Stewart, Peter	Murphsboro
Schroder, Fritz	Breese	Steigmeyer, E.	Staunton
Schnessel, Conrad	Breese	Stocks, H.	Cartersville
Schulte, Fritz	Clinton	Stoker, A. E.	Buffalo
Schumacher, Chas.	Marissa	Stone, Frank	Lebanon
Schumm, Fred W.	Gardner	Stone, Nathan	Cartersville
Schuster, John	Marissa	Storm, Edwin	Worden
Scott, J. W.	Colchester	Stout, F. M.	Springfield
Scurrah, Castling R.	Braceville	Stout, W. E.	Rutland
Secor, Fred D.	Odin	Stowell, G. W.	Bloomington
Seeman, John C.	Cantrall	Streik, Wm.	Belleville
Seeman, George A.	Cantrall	Strader, Clarence	Westville
Seidel, Fred	Kinmundy	Strait, John D.	Pinckneyville
Seiler, William	Ormsby	Strivey, Wm.	Taylorville
Sella, Chas. B.	Colfax	Stroud, Wm.	Worden
Seymour, John	Colfax	Struck, Carl	Springfield
Shafer, James M.	Girard	Struse, Henry H.	Athens
Shanklin, A. S.	Cartersville	Stuthard, George B.	Westville
Sharp, John H.	Spring Valley	Stuart, John	Ladd
Sheehan, Peter	Athens	Sullivan, S.	Harrisburg
Sheets, Walter L.	New Athens	Surber, Alexander H.	Danville
Shelleneger, S.	Willisville	Swartz, Fred	Toluca
Shepardson, Isaac V.	Fairmount		
Shroyer, A. D.	Lincoln	Taylor, James	Edwards
Shippe, George A.	Tilden	Taylor, Harry	Peoria
Shinn, Charles	Springfield	Taylor, Edwin	Trenton
Shriver, P. A.	Kinmundy	Taylor, Joseph G., Jr.	Springfield
Shuter, H. M.	Gilchrist	Taylor, Mack	Westville
Siddall, Herbert	Belleville	Taylor, Wm. W.	Tamaroa
Siddall, John	Belleville	Taylor, Simeon	Bissell
Siddall, Levi	Belleville	Taylor, A. P.	Johnson City
Simmons, H.	Murphysboro	Teaters, C. N.	Taylorville
Simlar, Guy S.	Glen Carbon	Tefft, Ernest	Mt. Olive
Silvis, Thomas S.	Carbon Cliff	Temple, James C.	Springfield
Simpkins, Homer	Streator	Terry, W. F.	Litchfield
Sison, W. A.	Gillespie	Terry, George L.	Raymond
Sizemore, Wm. I.	Cartersville	Thagott, John	Trenton
Skowm, Clarence	Gilchrist	Thexton, Henry	Rushville
Smith, Chas. H.	Seneca	Tobin, R.	Coal City
Smith, Edward W.	Colonyville	Thomas, Fred	Rutland
Smith, George W.	Virginia	Thomas, Charles	DeSoto
Smith, George W.	St. Louis, Mo.	Thomas, G. E.	DeSoto
Smith, P.	Danville	Thomasberry, Hiram A.	Duquoin
Smith, S.	Marion	Thompson, Wm. H.	Hinrod
Smith, Robert	Colfax	Thompson, Solomon E.	Mason
Smith, Ruth	Marion	Thompson, Fred	Westville
Smithmeyer, Anna	Marion	Thompson, J. H.	Marion
Smith, C. M.	Marion	Thompson, E. A.	Marion
Snackton, John	Marion	Thompson, Lewis F.	Worthing
Snackton, Richard	Marion	Thompson, Abel	Staunton
Snied, James	Westville	Thompson, C. B.	Tower Hill
Snodden, Wm.	Springfield	Thompson, J. L.	Danville
Snyder, Arthur	Springfield	Thompson, Robert	Springfield
Snodden, Edward	Springfield	Thompson, Peter	Assumption
Snodden, T. B.	Springfield	Thompson, A. C.	Pana
Snodden, T. B.	Springfield	Thompson, Wm.	Barker

*Certificates of Competency—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Tregoning, Chas.	Carterville	Westwood, Thomas E.	Marissa
Tregoning, Geo.	Carterville	Westwood, Edward	Birkner
Tumblenson, Sinclair	Centralia	Westwood, F. T.	Belleville
Turner, Geo. W.	Lewistown	Weymouth, John	Springfield
Twombly, Edward	Coal Valley	Wheatley, John W.	Coal City
		White, Korah	Tower Hill
Vandever, Geo. W.	Centralia	White, Henry	Riverton
Van Dansen, Leonard A.	Braceville	White, Perry J.	Springfield
Van Fleet, L. E.	Barclay	White, Robert	Lincoln
Van Meter, Percy	Williamsville	White, Booker	Catlin
Vallow, P. Oliver	Kinmundy	Wickersham, J. R.	Lake Creek
Vaughn, John	McLean	Widick, Edward C.	Finley
Valentine, Chas.	Cable	Wilkins, W. P.	Springfield
Vaughn, Wm. M.	Edwards	Wilkinson, Eugene	Taylorville
Vandveer, Perry E.	Taylorville	Williams, Andrew D.	Sandoval
Vernon, James	LaSalle	Williams, Huston	Spaulding
Vinecore, Stephen A. D.	Rutland	Williams, John	Spring Valley
Vollentine, Thomas E.	Sorento	Williams, Thomas E.	St. David
VonBrunn, Max	Glen Carbon	Williams, Watson	Virdeon
		Williams, Wm.	Duquoin
Wade, Geo. H.	Johnson City	Williams, Wm. H.	Sherrard
Wagner, John B.	Collinsville	Williams, Wm. Hampton	Murphysboro
Wagoner, Albert H.	Johnson City	Williams, John F.	Eldorado
Waggoner, Wm. F.	Raymond	Williamson, Henry	Coal City
Wagmire, James	Assumption	Williamson, Wm.	Coal City
Waldrom, Thos.	Fredonia	Wills, Henry E.	Harrisburg
Walker, James	Spaulding	Wilson, David	Birkner
Walker, John H.	Mt. Olive	Wilson, Wm. H.	Middle Grove
Walker, Joshua	Mt. Olive	Wilson, James	Springfield
Wallace, Henry G.	East Peoria	Wilterwood, William	Nokomis
Waller, Wm. F.	Marion	Windsor, Samuel	Norris
Walters, Robert	Springfield	Windsor, Robt.	Norris
Wallford, Noah	Hillsboro	Wines, E. R.	Springfield
Wallock, Chas.	Braceville	Wohlars, S. Henry	Mt. Olive
Walsh, James D.	Auburn	Wolfe, Wm.	Carterville
Walton, A. F.	LaSalle	Wohlford, John	Taylorville
Walton, Hugh	Norris	Wolschlag, Geo. J.	Peoria
Walton, Patrick	Bureau Junction	Wood, Daniel A.	Colfax
Walton, Joseph	St. David	Woodward, J. R.	Streator
Wantling, T. J.	Pottstown	Woolbright, D. A.	Centralia
Wandless, W. S.	Collinsville	Woodworth, Peter	Pekin
Warner, Richard	Troy	Worms, Joseph	Birkner
Warner, M.	Farmington	Wormack, Chas. A.	Glen Carbon
Warner, Andrew	Colfax	Wright, Thos. C.	Belleville
Wassell, Anton	Braceville	Wright, Wm. M.	Pana
Watkins, N. R.	Springfield	Wrigley, James	Collinsville
Watson, Frank	Springfield	Yates, John	DeSoto
Watson, M.	Riverton	Yates, Wm.	Coal City
Wattawa, Joseph	Belleville	Yebbing, Fred H.	Duquoin
Watts, T. J.	Elmwood	Young, J. K.	Girard
Wear, Roscoe	Colchester	Young, James G.	Gardner
Weaver, Elmer	Dunfermline	Young, Robert	LaSalle
Weaver, Orlie	Canton	Young, A. O. K.	Girard
Webb, Albert M.	Greenview	Young, Peter J.	Springfield
Webber, J. S.	Rutland	Young, W. J.	Duquoin
Welch, Benjamin	Harrisburg	Younghusband, L.	Coal City
Wente, Frank	Nashville	Youngquist, Frank	Sherrard
Wersen, W. L.	Springfield		
West, W. H.	Murphysboro	Zeigler, John	Iles Junction
West, Ollie	Herrin	Zerban, W. F.	Belleville
Wesner, Ephriam	Streator	Zink, Louis	Belleville
Westwood, Albert	Belleville	Zink, Peter A.	Belleville
		Zuriker, Lorenz	Cable



## HOISTING ENGINEERS HOLDING CERTIFICATES OF SERVICE.

Name.	Postoffice.	Name.	Postoffice.
Ackerman, Jacob .....	Belleville .....	Greaves, Allen .....	Nashville .....
Allen, William H .....	Collinsville .....	Grey, David F .....	Springfield .....
Anthony, John C .....	Belleville .....	Grierson, John .....	Streator .....
		Grimshaw, Joseph .....	LaSalle .....
		Groom, John .....	Belleville .....
Baiwir, John C .....	Braidwood .....		
Banker, Henry .....	Ridge Prairie .....	Haas, Jacob .....	Millstadt .....
Bath, Ameston .....	Cuba .....	Hackett, Owen .....	Spaulding .....
Beeby, William .....	Springfield .....	Hagler, Charles .....	Fredonia .....
Bell, George E .....	Canton .....	Hall, Geo. R. ....	Nilwood .....
Benvenuto, Charles .....	Toluca .....	Hanson, William .....	O'Fallon .....
Birkley, N. T. ....	Cuba .....	Harms, Heike .....	Petersburg .....
Blue, Jesse .....	Norris .....	Harris, J. T. ....	Tamaroa .....
Bonick, Andrew .....	Gilchrist .....	Heaver, F. ....	Sandoval .....
Bowman, George W .....	Yates City .....	Hickox, Lee .....	Springfield .....
Brown, G. A. ....	Iles Junction .....	Howe, Charles .....	Streator .....
Brubeck, J. W. ....	Pawnee .....		
Brumann, Albert .....	Springfield .....		
		Ichman, Frank .....	Spring Valley .....
Campbell, Albert .....	Pottstown .....	Isadore, Charles .....	Sparta .....
Campbell, James .....	Coal City .....	Isadore, George .....	Sparta .....
Carlson, Alexander .....	Galva .....		
Carrington, Eugene .....	Moweaqua .....	Jackson, William .....	Minonk .....
Carter, Albert J .....	Pinckneyville .....	Jacobs, John P. ....	Orchard Mines .....
Chitwood, William .....	Glenburn .....	Jacobs, William .....	Murphysboro .....
Clark, Charles M. ....	Duquoin .....	Jamison, John .....	Petersburg .....
Cline, John .....	LaSalle .....	Jeffrey, William .....	Gilchrist .....
Collins, John .....	Birkner .....	Johnson, Edgar W .....	Marissa .....
Cook, W. D. ....	Westville .....	Jones, George W .....	Riverton .....
Cotton, George .....	Hallidayboro .....	Jones, T. A. ....	Muncie .....
Cox, John .....	Ledford .....	Judd, Thomas .....	Cuba .....
Craig, Daniel .....	Danville .....		
Crawson, William .....	O'Fallon .....	Kearney, E .....	Hallidayboro .....
Crinigan, Barney .....	LaSalle .....	Kelly, Martin .....	Toluca .....
Crocker, Edward .....	Marquette .....	Kemper, Christian .....	Belleville .....
Cruikshanks, Wm. A. ....	Middle Grove .....	Kennedy, W. J. ....	Edwardsville .....
Cummings, Robert H. L. ....	Sparland .....	King, Alexander, Jr. ....	Cartersville .....
		King, John .....	Cartersville .....
Daley, Thomas .....	Diamond .....	Kirby, Thomas Jr. ....	Peru .....
Dauck, John .....	LaSalle .....	Klaug, John .....	Galva .....
Davenport, Thomas .....	New Castle .....	Klaus, Louis .....	Belleville .....
Davis, George W .....	Hanna City .....		
Davis, Thomas .....	Swanwick .....	Langran, James .....	Fairbury .....
Davis, William H .....	Streator .....	Larson, Charles L. ....	Galva .....
Davison, J. G. ....	St. John .....	Lathan, William H .....	Hallidayboro .....
Dawson, John .....	Streator .....	Lewis, Jacob H. ....	Pottstown .....
Dawson, Thomas .....	Streator .....	Lewis, William .....	Wanlock .....
Dawson, V. C. ....	Spring Valley .....	Lippert, Adolph .....	Kewanee .....
DeBacher, Thomas .....	Elmwood .....	Lloyd, Benjamin .....	Rentchler .....
DeHaas, B. L. ....	Tallula .....	Love, William .....	Virden .....
Dietrich, Philip .....	Freeburg .....	Lumdburg, Eric .....	Galva .....
Dillon, John .....	Auburn .....		
Doe, R. P. ....	Glen Carbon .....	Marshall, Robert .....	Yates City .....
Dodd, Samuel .....	Pottstown .....	Matthews, George .....	Duquoin .....
		Mattern, Daniel .....	Spring Valley .....
Ebel, August .....	Belleville .....	Matthews, C. ....	Marion .....
Edwards, George W .....	Springfield .....	Matthews, Wm. G. ....	Bartonville .....
Egerton, J. O. ....	Colchester .....	Maurer, Edward .....	Spring Valley .....
Ekin, Daniel B .....	Springfield .....	Maxwell, Fred .....	Peoria .....
Essex, George M .....	Soperville .....	McClaster, Thomas .....	Muddy Valley .....
Evans, Albert .....	Glen Carbon .....	McDonald, William H .....	Pana .....
Everett, Charles .....	Rutland .....	McLean, John .....	Pleasant Plains .....
		McMillen, W. M. ....	Danville .....
Fischer, George .....	Staunton .....	McWerthy, G. A. ....	Smithboro .....
Fisher, Patrick .....	Kangley .....	Melvin, T. M. ....	Tamaroa .....
		Milem, John .....	Spring Valley .....
Gaudy, James W .....	Peoria .....	Miller, Wm. ....	Streator .....
Glasford, Oliver .....	Orchard Mines .....	Morrison, Archie .....	Oglesby .....
Glenam, Philip .....	Williamsville .....	Mumford, E. A. ....	Kewanee .....
Graham, J. A. ....	Nilwood .....	Murray, James H. ....	Galva .....
Graham, Reuben .....	Virde .....		
Grattendick, Fred .....	Okawville .....		

*Certificates of Service—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Neal, Ambrose.....	Barclay .....	Sallade, George A.....	Chatham .....
Neil, John H.....	Bunker Hill.....	Sanson, T. J.....	Carterville .....
Neilson, J. W.....	Sparta.....	Sawyers, Joseph.....	Coal City.....
Nicholson, George A.....	Cuba.....	Schmacher, Charles.....	Marissa.....
Nord, John E.....	Galva.....	Schramm, Charles.....	Belleville.....
		Seebach, Joseph.....	Spring Valley.....
Ogden, David.....	Rentchler.....	Sexton, LaFayette.....	Dawson.....
Ogden, Samuel.....	Mascoutah.....	Seymour, A. J.....	Fredonia.....
Olson, Aug.....	Kangley.....	Sheppard, W. C.....	Marquette.....
Osborne, Benjamin.....	Streator.....	Shurm, Fred.....	Gardner.....
Ottinger, William.....	Catin.....	Smith, Geo. W.....	Virginia.....
		Sorrells, D. H.....	Ashland.....
Pankey, John M.....	Equality.....	Sowarby, Miles.....	Willisville.....
Peet, Charles.....	Marseilles.....	Stoker, Edward.....	Bartonville.....
Pendergast, James.....	Soperville.....	Streck, William.....	Belleville.....
Phillips, William.....	Hallidayboro.....	Stroud, William.....	Worden.....
Picton, Joseph.....	Farmington.....	Struck, Carl.....	Springfield.....
Picton, Thomas H.....	Farmington.....	Stuart, John.....	Oglesby.....
Piper, Oliver.....	Worden.....		
Prichard, H. C.....	Lewistown.....	Tanner, Henry.....	Pinckneyville.....
Prichett, T. M.....	Niantic.....	Taylor, Benjamin.....	Bartonville.....
		Taylor, Willard W.....	Tamaroa.....
Qualls, Nevel.....	Dubois.....	Tefft, Ernst.....	Girard.....
Quick, A. T.....	Sato.....	Telfer, John K.....	Morris.....
		Thome, Martin.....	Martinville.....
Raber, Louis.....	Caseyville.....		
Radford, James W.....	Cuba.....	Wallace, Harry G.....	East Peoria.....
Radford, W. T.....	Bloomington.....	Warner, Andrew M.....	Wenona.....
Rahaur, Michael.....	Pawnee.....	Waymire, James.....	Assumption.....
Redyard, John.....	Odin.....	Wertwood, Edward.....	Birkner.....
Reese, William M.....	Roanoke.....	Wheatley, Rolley.....	Duquoin.....
Reid, A. B., Jr.....	Duquoin.....	White, Henry.....	Riverton.....
Rennard, James E.....	Westville.....	Williams, Huston.....	Spaulding.....
Reum, Charles H.....	Sorento.....	Williams, Stephen P.....	Wyoming.....
Rice, B. F.....	Harrisburg.....	Williams, Watson.....	Barclay.....
Richmond, Edward B.....	Winchester.....	Willis, Harry.....	New Castle.....
Rieger, John C.....	Pinckneyville.....	Wood, Daniel A.....	Colfax.....
Kiley, Michael.....	Westville.....	Woolbright, D. A.....	Centralia.....
Roach, Samuel.....	Tamaroa.....	Wonnes, Joseph.....	Birkner.....
Rogers, George.....	Sunfield.....	Wormack, Charles A.....	Glen Carbon.....
Rogers, Henry.....	Braidwood.....		
Rude, Edmond.....	DeSoto.....	Zeigler, John.....	Iles Junction.....

## MINE EXAMINERS HOLDING CERTIFICATES OF COMPETENCY.

NOTE—The revised mining law of 1899 changed the title or name "Fire Boss" to that of "Mine Examiner," and provided that those holding certificates as Fire Boss could exchange the same for that of Mine Examiner.

The names followed by the abbreviation "ex." have made such exchange, those by "d." are deceased.

Name.	Postoffice.	Name.	Postoffice.
Abel, George .....	East Peoria .....	Bennett, William .....	Danville .....
Adams, Alexander .....	Carterville .....	Bernard, Edward .....	Danville .....
Adams, William M .....	Centralia .....	Berry, W. C. ....	Staunton .....
Adrien, Charles H. ....	Hanna City .....	Betson, Robt. ....	Farmington .....
Akers, Max .....	Edwards .....	Bettison, William .....	Canton .....
Allen, Ben .....	Viriden .....	Beynon, J. G. ....	O'Fallon .....
Allen, Fred .....	Centralia .....	Biehl, Charles .....	Belleville .....
Alexander, John .....	Cable .....	Bigelow, George .....	Spaulding .....
Alexander, David H. ....	Pinckneyville .....	Blair, Herbert M. ....	Centralia .....
Amberger, Joseph .....	Chatham .....	Bluefield, Charles .....	Coal City .....
Andree, John W. ....	Greenville .....	Blakemore, George .....	Streator .....
Anderson, James .....	Marion .....	Blenkinsopp, Thomas Jr.	Cable .....
Anderson, Wm. ....	Glen Carbon .....	Blue, J. W. ....	Grape Creek .....
Andrew, Thomas .....	Oglesby .....	Bobell, Louis .....	Mt. Pulaski .....
Andrew, Thomas .....	Kangley .....	Booth, Enoch .....	Springfield .....
Archibald, George .....	Green Ridge .....	Borg, Frank .....	Mt. Olive .....
Armstrong, George .....	Riverton .....	Bost, Lock .....	Pana .....
Argyle, Joseph .....	Coal City .....	Bouer, Benj. F. ....	Herrin .....
Arnold, Stephen .....	Oglesby .....	Bowen, Gwilym .....	Herrin .....
Asbery, E .....	Salem .....	Bowen, Melvin I. ....	Blue Mound .....
Asbery, J. B. ....	Salem .....	Bowie, Robert .....	Braidwood .....
Atkinson, John G. ....	Cable .....	Howman, Jacob .....	Salem .....
Avery, William .....	Belleville .....	Boyer, John .....	Fairmount .....
		Bracewell, Warren .....	Danville .....
Back, Robert .....	Farmington .....	Bradley, James L. ....	O'Fallon .....
Bailey, David .....	Sunfield .....	Bradley, James .....	Belleville .....
Bailey, William .....	Sunfield .....	Breeze, John E. ....	Taylorville .....
Baillie, James W. ....	Duquoin .....	Brennan, Patrick .....	Toluca .....
Baird, Daniel .....	Sparta .....	Brennan, John E. ....	Viriden .....
Baker, Charles .....	Centralia .....	Brennan, George .....	Caseyville .....
Baker, Sherrard .....	Gillespie .....	Brewer, Emery A. ....	Mt. Pulaski .....
Baker, Robert .....	Auburn .....	Brinley, Wm. ....	Westville .....
Baker, Samuel G. ....	Auburn .....	Hrod, Peter A. ....	Odin .....
Baldwin, J. F. ....	Equality .....	Brook, Isaac .....	S. Wilmington .....
Barker, John .....	Centralia .....	Brooks, Mac .....	Pleasant Plains .....
Barkley, George .....	Greenville .....	Brown, Ben F. ....	Bryant .....
Barlow, Harry .....	Lake Creek .....	Brown, Leslie L. ....	Peoria .....
Barrowman, Wm. T. ....	De Soto .....	Brown, Mathew .....	Springfield .....
Basso, Joseph .....	Athens .....	Brown, Archibald .....	Streator .....
Bauder, Fred .....	Herrin .....	Brooks, Peter .....	Taylorville .....
Baugh, William .....	Dawson .....	Bryan, William .....	Viriden .....
Beecham, William .....	Cardiff .....	Bullough, James .....	Girard .....
Beekman, Theodore .....	Glen Carbon .....	Bundy, John .....	Streator .....
Beece, Charles .....	Belleville .....	Bumgartner, Andrew J.	Barclay .....
Beggs, David .....	Fairbury .....	Burgess, Wm. W. ....	Johnson City .....
Belch, Thomas .....	Herrin .....	Burke, John .....	Westville .....
Bell, Arthur .....	Carterville .....	Burnett, J. ....	Hallidayboro .....
Bell, William .....	Streator .....	Burnett, Thomas .....	Hallidayboro .....
		Burns, James, Sr. ....	Springfield .....

*Mine Examiners, Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Burns, J.	Spring Valley	Dangerfield, Edward	Herrin
Burns, Wm. S.	Gillespie	Daniel, John	Belleville
Cadmus, George T.	Lebanon	David, Emmer E.	Astoria
Campbell, Robert	Witt	Davis, George	Springfield
Campbell, James	Assumption	Davies, Thomas	Nilwood
Campbell, Edward	Pekin	Davis, William	Streator
Cannon, John	Marquette	Davis, William H.	Streator
Capet, Moses	Coal City	Davis, Jackson	Athens
Cappin, Aaron	Wenona	Davis, William	Streator
Capstick, Arthur E.	New Baden	Davis, John	Taylorville
Capstick, Wesley W.	New Baden	Davidson, Frank A.	Sparta
Carison, Andrew	Colfax	Davidson, Forest W.	Sandoval
Carr, J. W.	Odin	Davison, William D.	Sandoval
Carr, Wm.	Middletown	Day, Louis B.	Taylorville
Carraher, Thomas	Zeigler	Dayton, J.	Roanoke
Carroll, Anthony W.	Gillespie	Dawkins, Wm. E.	Rentchler
Carter, James	LaSalle	Dickey, J. G.	Sparta
Carter, Samuel	Braceville	Dickinson, Wm. F.	Athens
Carterell, Claude	Herrin	Diehl, Louis	Belleville
Carylon, J.	Oglesby	Dilts, Harry	Farmington
Case, William	Diamond	Dodge, H. N.	East Peoria
Casey, James	Selbytown	Doerls, Charles	Harrisburg
Casey, John	Braldwood	Doerr, Emil	Johnson City
Casey, John	Williamsville	Doonier, P. J.	Westville
Cashen, W. P.	Lincoln	Donkin, Jonathan, Sr.	LaSalle
Castillo, Henry	Pana	Dowdell, W.	Danville
Chadderton, John	Lenz Station	Dowell, William C.	Centralia
Champe, Wm. M.	Coffeen	Draper, Orason	Divernon
Champley, James	Wenona	Dubois, James	Oglesby
Charnock, James	Decatur	Duncan, John C.	Murphysboro
Christie, Wm. T.	Herrin	Dunkel, George E.	Pleasant Plains
Cisey, William T.	Ava	Dusenberry, Walter	Marissa
Clark, Walter	Lebanon	Eadie, John	Sherman
Clark, Robert	Farmington	Edmunds, Morgan	Mt. Olive
Clark, Joseph B.	Hornsby	Edwards, Benj.	Westville
Clelland, Wm.	Rutland	Ehlert, William	Mt. Olive
Craine, J. E., Jr.	Murphysboro	Ellison, Charles R.	Pana
Cunningham, David	Carlinville	English, Thomas	Streator
Champley, James, ex.	Wenona	Eubanks, Edward R.	Hallidayboro
Coleman, Mont.	Virden	Evans, John	Sandoval
Condon, Charles H.	Hanna City	Evans, Edward J.	Pekin
Connolly, Terrance J.	Assumption	Evans, Wm. A.	Danville
Coogan, Wm.	East Peoria	Evans, Gwilym I.	Duquoin
Cook, William	Duquoin	Falconer, George P.	Belleville
Cook, Frank	Westville	Farmer, James	Marissa
Cook, Elijah	Wanlock	Farrand, Walter	Barclay
Cook, Thomas	Belleville	Farrell, John H.	Springfield
Cook, Thomas	Belleville	Farrimond, Joseph	Staunton
Cooper, Moses	Athens	Faughn, James Lewis	Murphysboro
Corcoran, Charles	Carterville	Ferges, Edmund	Herrin
Cordon, Richard	Coulterville	Fickart, Henry	Staunton
Cosgrove, Bernard	Sparta	Ficker, F.	Staunton
Cosgrove, John	Sparta	Fiellingham, John E.	Peoria
Costello, Henry, ex.	Pana	Felto, Logan	Johnson City
Cowley, William	Duquoin	Felton, Harry	Petersburg
Cowley, Peter	Westville	Flynn, Edward	Duquoin
Crane, Roy	Tamaroa	Flynn, Charles	Pana
Crichton, Lawson	Taylorville	Flynn, Wm.	Willisville
Cross, Thomas	Johnson City	Flynn, John	Duquoin
Connaughton, Edward	Belleville	Flynn, Wm. H.	Carterville
Cox, E.	Centralia	Ford, John	Tilden
Cox, W. E.	Centralia	Forsythe, Hugh	Marissa
Cox, Will M.	Edwardsville	Fox, John	Elmwood
Cumming, J. M.	East Peoria	Frank, Anton	Freeburg
Cummins, Ross	Danville	Fremgen, C. J.	Glen Carbon
Dacy, William	Springfield	Fremgen, C. W.	Glen Carbon
Daenzer, John A.	Glen Carbon	Found, Isaac	Taylorville
Daley, Charles	Springfield	Fryer, Alfred	Springfield
Dale, John	Streator	Gabagan, Frank	Harrisburg
Dallas, Charles	Odin	Galbraith, Patrick	Coal City
Davis, John	Kingston Mines	Galvin, Martin	Assumption
Dalzell, Andrew	Lanton		
Damrath, Frederick	Virden		

*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Gallagher, J. M.	Cartersville	Herbert, Albert W.	Athens
Galligan, Michael	Herrin	Heron, George	DeSoto
Gastenecker, William	Troy	Hexter, John	Freeburg
Gebaur, Joseph	Glen Carbon	Herzog, W.	Glen Carbon
Geddis, Hamilton A.	Chatham	Hickman, Lewis H.	Bissell
Getteman, L.	Centralla	Hines, William	Rutland
Ghebandy, Honore	Westville	Hippard, W. J.	Belleville
Gibel, Nick	Springfield	Hodder, Jacob	Norris
Gillespie, John	Divernon	Hood, John	Divernon
Gillespie, James	Cantrall	Hooper, Geo.	Winchester
Gleich, Fred	Pekin	Houston, Robert J.	Lebanon
Glover, Richard	Belleville	Holcomb, Reuben	Westville
Gloss, Michael	Gardner	Holden, Andrew	Coal City
Goehle, William	Staunton	Hopkins, Reese	Litchfield
Gosnell, N. F.	Herrin	Horning, E. E.	Harrisburg
Gosnell, Ira	Herrin	Howell, J.	Cartersville
Goss, Robt.	Streator	Howells, George	Staunton
Grabsuck, Emile	Gardner	Hoye, William	Braidwood
Graham, L. A.	Bloomington	Honbuan, M.	Herrin
Gramlich, Fred W.	Belleville	Hughes, John	Decatur
Gray, Alexander	Gillespie	Hutchinson, Ralph	Harcly
Gray, Henry	Athens		
Gray, William	Streator	Irrs, Daniel	Mt. Olive
Green, Wm. H.	Belleville		
Green, J. W.	Springfield	Jackson, John	Marion
Green, Thomas H.	Springfield	Jacobs, Walter	Johnson City
Greenan, John	Coal City	James, Jonah	Grape Creek
Gregor, Charles	Springfield	James, Charles	Riverton
Grieve, Peter	Belleville	Jarrell, Edward	Harrisburg
Grieve, Robert	Collinsville	Jasper, John	Duquoin
Griffin, John B.	Niantic	Jeffries, Thomas R.	Herrin
Griffith, Peter	Falsley	Jenkins, Richard	LaSalle
Griffith, Evan	St. David	Jenkins, T. C.	Murphysboro
Griffith, David	Centralla	Jennins, Wm. M.	Athens
Grills, David C.	Duquoin	Jeremiah, John J.	Duquoin
Groom, Isaac	Belleville	Jeten, T. F.	Roanoke
Guthrie, J. C.	Herrin	Johnson, David	Oglesby
Guy, John	Streator	Johnson, Samuel	Oglesby
		Johnson, James N.	Cartersville
Hackett, Joseph	Blue Mound	Johnson, Nels	Johnston City
Haddow, Thomas	Pana	Jones, Alex.	Oglesby
Hardman, J. J.	Auburn	Jones, Thomas H.	Centralla
Hall, Joseph	Auburn	Jones, Ben. J., ex.	Coffeen
Hall, Thomas	Auburn	Jones, John E.	Paisley
Hall, Albert	Herrin	Jones, Thomas	Lebanon
Harris, William	Hallidayboro	Jones, Thomas	Duquoin
Harrison, James	Athens	Jones, John	Springfield
Harrison, John	Odin	Jones, Willis	Herrin
Haun, George	Litchfield	Jones, Benj. J.	Coffeen
Hamilton, David	Assumption	Jones, Morgan	Litchfield
Hampton, Harry	O'Fallon	Jones, Robert R.	Oglesby
Handwright, J.	Viriden	Jones, Wm. Hy.	Catlin
Haistfield, Aaron	Oglesby	Jones, John O.	Braceville
Hart, Chas. J.	Viriden	Jones, David	Westville
Harrison, Robert	Cornell	Jones, John	Clark City
Harron, Walter	Sorento	Jones, Thomas	Taylorville
Haselton, F.	Springfield	Jordan, Robert (d)	Streator
Harvey, C. M.	Williamville	Jordan, Alfred	St. David
Hatmaker, Sterling	Herrin		
Hawkins, Sidney	Belleville	Kane, J. M.	Springfield
Hayden, G. S.	Wenona	Kaney, John	Centralla
Haydon, Martin	Sherman	Kaveny, John R.	Troy
Hayes, Webster	Glen Carbon	Kenney, Wm.	Spaulding
Hanson, Charles	Danville	Kepper, Wm.	Peru
Hardin, Hiram H.	Divernon	Kidd, Wm.	Witt
Harvey, Frank	Springfield	Kidd, S. A.	Oglesby
Haskins, Joseph	Catlin	Kingsley, G.	Kingston Mines
Hillery, T.	Sherard	Kingsley, T.	Kingston Mines
Haywood, Joseph	Centralla	Killingworth, Chas. H.	Pinckneyville
Hebenstreet, J. A.	Staunton	Klein, Andrew	Streator
Heiley, G. M.	Dunfermline	Kloeber, Matthew	Pana
Hemmersbach, Peter	Farmington	Knapp, Charles	Seatonville
Henley, J. H.	Odin	Knies, Harry	Breese
Henderson, John D.	Herrin	Kochler, Charles	Lincoln
Henderson, Alexander	Springfield		
Henderson, J.	Spaulding		



*Certificates of Competency—Continued.*

Name.	Postoffice.	Name.	Postoffice.
Parker, Joseph	Carlton Hill	Ruff, William	Troy
Patton, George A.	Sandoval	Rufus, H. H.	Danville
Payne, Perry	Litchfield		
Payne, Emanuel	Litchfield		
Pearson, George	Glen Carbon	Saathoff, John	New Baden
Peart, John	Braidwood	Sauer, G. G. Fred	Belleville
Peck, William	LaSalle	Saurs, C.	Peoria
Percy, Robert	Tilden	Savage, Mike	Lincoln
Pettigrew, A.	Roanoke	Savill, Wm.	Streator
Pettigrew, J.	Roanoke	Sawyer, L. C.	Taylorville
Pettigrew, Robert	Roanoke	Scattergood, John	Barclay
Petty, John	Herrin	Schmidt, Conrad	Lincoln
Phelan, Augusta J.	Lincoln	Schmidt, Henry	Staunton
Phelps, George	Herrin	Schmidt, A. R.	Spaulding
Phillips, Benjamin	Kangley	Schroyer, Moses	Springfield
Pick, Edward	Central City	Schreier, Gustave	Divernon
Pickett, J. W.	Spring Valley	Scott, Wm. J.	Springfield
Pickering, John L.	Harrisburg	Scoby, Ray	Gilchrist
Pickon, Felix	Danville	Sebastian, Charles	Freeburg
Pickton, John L.	Farmington	Seidl, Frank J.	Sandoval
Pickus, August	Decatur	Self, J.	Glen Carbon
Pierard, Edward	Coal City	Secor, T. D.	Odin
Pinson, Samuel	Coffeen	Settles, Allen	Elmwood
Preval, Fred	Springfield	Shanahan, Patrick H.	Gillespie
Price, Fred W.	Edinburg	Shanahan, George W.	Gillespie
Poole, Robert H.	Belleville	Shurin, Peter	Auburn
Potter, E.	Hanna City, R. R. No. 1.	Shroyer, Edward	Dunfermline
		Shuster, Harb C.	Peoria
Price, John B.	Marissa	Shuster, B. J.	Peoria
Price, Wm.	Braceville	Shaw, Henry	Spring Valley
Prince, Thomas	Mt. Olive	Siddall, Edward	Streator
Prudent, Edward	Centralia	Siddall, John W.	Streator
		Siddall, James	Streator
		Simpson, James I.	Springfield
Quinn, Bernard	Bloomington	Sine, C. A.	Herrin
Quinn, Thos. J.	Lincoln	Smith, Geo. A.	Sandoval
		Smith, Arthur J.	Springfield
		Smith, Geo. T.	Dawson
Raab, Rudolph	Carlville	Smith, Henry	Smithton
Race, George	Springfield	Smith, William H.	Taylorville
Rackley, Emery	Pinckneyville	Smith, John P.	Glen Carbon
Rae, Robert	Carbon Hill	Smith, James	Streator
Rainey, N. G.	Harrisburg	Smith, George W.	Carterville
Rankin, Thomas A.	Westville	Smith, Benjamin	Canton
Ready, Thos.	Springfield	Smith, Harry	Troy
Rearely, G. W.	Riverton	Smith, John H.	Herrin
Reid, Andrew	Springfield	Smith, William	Belleville
Reed, James	Dunfermline	Smith, Paul	Springfield
Reeser, John	Springfield	Smith, Holden J.	Centralia
Rehg, Charles	Belleville	Smith, Joseph	Moweaqua
Rennison, Henry	St. John	Smith, Matt	Centralia
Reynolds, John	Streator	Smith, Alex	Danville
Reynolds, Andrew	Danville	Sneddon, Michael	Chatham
Reynolds, David	Muncie	Sneddon, George	Chatham
Rhodes, D. R.	Pana	Snigler, Edward	Johnston City
Rhodes, J. L.	Westville	Snyder, Henry	Herrin
Rice, Geo.	Springfield	Sollis, John	Centralia
Richards, James	LaSalle	Southworth, Andrew P.	Belleville
Richie, John	Glen Carbon	Spiller, George	Johnson City
Ritson, Hugh	Farmington	Spies, Alfred	Braceville
Rider, James H.	Pontiac	Spies, E.	Braceville
Richard, James	Belleville	Spies, William	Braceville
Richardson, Thos.	Streator	Stafford, Frank	Lebanon
Richter, Franz B.	Springfield	Steel, Daniel	Collinsville
Roberts, Evan	Danville	Steele, D.	Centralia
Robinson, Thos. J.	Greenview	Steel, Neal	Centralia
Robbins, Aaron	Mt. Pulaski	Stearns, James	Hallidayboro
Roger, James	Viriden	Stearns, John	Hallidayboro
Rolla, Richard	Pana	Stewart, W. B.	Viriden
Rolla, James	Pana	Stoneburner, L. L.	Sorento
Rolandelly, C. D.	Clarke City	Slow, Michael	Braceville
Ross, S. H.	Gillespie	Steiber, Anton	Glen Carbon
Ross, John H.	Gillespie	Steines, Benjamin	Willisville
Rowland, Iver	Viriden	Steux, Adolph	Auburn
Royster, William	Duquoin	Stevens, Walter	Streator
Rozanski, Michael	Taylorville	Stevens, John	Cuba
Rude, Michael	DeSoto	Stewart, John T.	Coulterville





*Certificates of Service—Concluded.*

Name.	Postoffice.	Name.	Postoffice.
Moffett, Edward A. ....	Bartonville.....	Siebenhawer, Wm. ....	LaSalle .....
Montgomery, John H. ....	Gardner .....	Sloufskie, Herman .....	Deatur .....
Mooney, Arthur.....	Kangley .....	Stewart, Samuel.....	Coal City.....
McDonald, M. E. ....	LaSalle .....		
Ross, S. H. ....	Girard .....	Taylor, Samuel .....	O'Fallon.....
		Thomas, David .....	Canton .....
Schmidt, Ernest.....	Mt. Olive .....	Ward, Robert .....	Streator.....
Schultz, John .....	Diamond.....	Wilson, Archie.....	Clarke City .....
Shaw, Francis M .....	Hallidayboro. ....	Wilson, John .....	Gardner .....
Shopman, John.....	Mt. Olive.....	Wood, Henry.....	Streator.....

SEVENTH ANNUAL REPORT  
OF THE  
Bureau of Labor Statistics  
OF THE  
ILLINOIS  
Free Employment Offices

FOR THE  
Year Ended October 1, 1905.

(Established August 2, 1899.)

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DAVID ROSS, Secretary, Springfield.



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1906



## INTRODUCTION.

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The report for this year shows a substantial and gratifying increase in the number of applications for employment and help, and in the number of positions obtained. Compared with the record for the year preceding the increase numbers 7,830 for employment and 7,874 placed in positions. While the primary purpose in establishing these offices was to aid the common or unskilled laborer in getting work without cost to him or her, their influence has not been limited to that class. The offices are open and available for all people in need of employment. That the opportunities afforded by them have been taken advantage of by those following more specialized occupations will appear upon reference to the table relating to skilled and unskilled labor. From this it is shown that nearly 8,000 people, representing established skilled trades, including commercial and professional pursuits, have secured positions during the year. When it is remembered that the free offices have neither the time nor the means to publicly or personally solicit or place men who have qualified themselves for employment requiring technical ability, the showing made is quite creditable. When the facilities offered by such offices in this direction become more generally known they will be in a better position to meet the demands of the higher and more specialized grades of employment. The modern tendency to specialization is very apparent in this as in other lines of enterprise. The better class of private employment agencies will accept only applications for a certain service, mainly of a professional character. Committed to meet the wants of a particular class all their attention in soliciting applications from firms in need of such help, in looking up references, advertising, etc., etc., is devoted to that purpose. It is not to be expected that offices engaged as those of the State are, in the business of supplying general help, can do much along special lines. To attempt to encourage specialties would in effect diminish their usefulness, and in a measure frustrate the purpose for which they were organized.

There is more or less security in an established trade or profession. When industrial fluctuations take place, it is the common or unskilled workman who is first affected, his services as a rule can be easier and more readily dispensed with; thus it becomes the special concern of the State, through its offices, to render such classes all possible assistance.

We regret having to record the death of two of the officers of the Peoria Free Employment Office—Mr. Charles Easton, Assistant Superintendent, after a brief illness died February 6, 1905; and Mr. Edward E. Walker, Superintendent, March 11, 1905. Mr. Walker had been a sufferer for several months, and his death was not unexpected. Both men were efficient and faithful workers in the line of their duties, laboring to establish and advance the practical usefulness of the office over which they had charge.

**SEVENTH ANNUAL REPORT.**  
OF THE  
**Illinois Free Employment Offices,**  
**1905.**

(Established August 2, 1899.)

The work accomplished by the Illinois Free Employment offices for the year ended October 1, 1905, is presented in this, the seventh annual report.

The summing up of the business transacted by these offices for the year is presented in the following table:

*TABLE 1—Showing the Combined Business of the Four Offices for the Year Ended October 1, 1905.*

OFFICES. (Three in Chicago, one in Peoria.)	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
	Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
North Side Office—Males .....	4,257	4,216	41	4,603	387
North Side Office—Females .....	3,874	3,809	65	4,810	1,001
Totals .....	8,131	*8,025	106	9,413	1,388
South Side Office—Males .....	9,142	8,622	520	9,777	1,155
South Side Office—Females .....	4,260	4,083	177	5,185	1,102
Totals .....	13,402	†12,705	697	14,962	2,257
West Side Office—Males .....	13,329	10,010	3,319	10,034	24
West Side Office—Females .....	2,784	2,030	754	2,923	893
Totals .....	16,113	12,040	4,073	12,957	917
Peoria Office—Males .....	5,345	4,804	541	4,937	133
Peoria Office—Females .....	2,332	2,024	308	2,308	284
Totals .....	7,677	6,828	849	7,245	417
Total Males—Four Offices .....	32,073	27,652	4,421	29,351	1,699
Total Females—Four Offices .....	13,250	11,946	1,304	15,226	3,280
Grand totals .....	45,323	‡39,598	5,725	44,577	4,979

\*Of this number 191 males and 113 females, a total of 304 were secured positions on applications filed last year.

†Of this number 16 males and 123 females, a total of 144 were secured positions on applications filed last year.

‡Of this number 207 males and 241 females, a total of 448 were secured positions on applications filed last year.

The total number of persons registering, seeking places to work, was 45,323; of this number 32,073, or 70.77 per cent, were males, and 13,250, or 29.23 per cent, females; the total number is augmented by 448; males 207, females 241, being applications on file and brought forward from the previous year, so that the total number of applications handled during the year was 45,771.

The following table of percentages gives a more explicit reading of the work of each of the four offices regarding both male and female applicants and the positions secured both sexes:

TABLE 2.—*Percentages of Applicants for Employment and for Help, and Positions Secured by Each of the Four Offices for the Year.*

OFFICES.	PERCENTAGE OF—					
	APPLICATIONS FOR EMPLOYMENT.		APPLICATIONS FOR HELP.		POSITIONS SECURED.	
	Males.	Females.	Males.	Females.	Males.	Females.
North Side Office .....	52.36	47.64	49.90	51.10	52.54	47.46
South Side Office .....	68.21	31.79	65.85	34.65	67.86	32.14
West Side Office .....	82.72	17.28	77.44	22.56	83.14	16.86
Peoria Office .....	69.63	30.38	68.14	31.86	70.36	29.64
The four offices .....	70.77	29.23	65.84	34.16	69.83	30.17

This is the largest number registered during any one year since the organization of these offices; of this number 83.23 per cent was filed in the three Chicago offices.

The number for whom positions were secured is larger than for either of the past two years, and was only exceeded in 1902; the total number this year is shown to be 39,598; of this number 27,652 or 69.83 per cent were males, and 11,946 or 30.17 per cent, females. These proportions vary but a fraction from those shown for applications for employment.

The total number of applications registered by employers seeking help was 44,577; of this number 29,351, or 65.84 per cent, were for males, and 15,226 or 34.16 per cent for females. The total number registered was nearly 8,000 more than last year.

The results accomplished by each of the four offices are better shown in a table of percentages, giving the proportion of both male and female applicants who were placed in positions; also the corresponding information as to help supplied to employers:

**TABLE 3.—Percentages of Positions Secured and Percentages of Help Furnished, both Male and Female.**

OFFICES.	PERCENTAGE OF POSITIONS SECURED APPLI- CANTS FOR EMPLOYMENT.			PERCENTAGE OF APPLICA- TIONS FOR HELP FURNISHED.		
	Males.	Females.	Both Sexes.	Males.	Females.	Both Sexes.
North Side Office.....	99.04	98.32	98.70	91.59	79.19	85.25
South Side Office.....	94.31	95.85	94.80	88.19	78.75	84.92
West Side Office.....	75.10	72.92	74.72	99.76	69.45	92.92
Peoria Office.....	89.88	86.79	88.94	97.31	87.69	94.24
The four offices.....	86.22	90.16	87.37	94.21	78.46	88.83

Observing the Chicago offices, it will be seen that the North Side office secured positions for the largest proportion of both male and female applicants for positions. The West Side office supplied employers with the largest per cent of applications for male help, while the Peoria office furnished the largest percentage of females to employers, and combining both males and females, supplied a larger per cent than either of the other offices.

Considering the work of all the offices in securing positions for those desiring work during the year, the percentages show a decided increase in efficiency over last year. Regarding the supplying of help to employers a similar increase is shown, excepting the furnishing of female help, which shows a slight decrease; altogether the work performed by all the offices presents very satisfactory results.

To bring out fully and in compact form the work accomplished by these offices, since their establishment, a series of tables are introduced, showing for the six complete years, from Oct. 1, 1899, to Oct. 1, 1905, the extent of the business in hand and completed in each year during the period named. The first presentation is arranged by classified occupations, and by years, giving the number



of applications, both for employment and for help, also the number of positions secured, with the percentages of positions secured to both classes of applicants:

TABLE 4—*Classified Occupations (Male and Female) with percentages—for Six Years.*

SEX AND CLASSES OF OCCUPATIONS.	Number of occupations in each class.	NUMBER OF APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF POSITIONS SECURED FOR—	
		Employment.	Help.		Applicants for employment.	Applicants for help.
Males—totals six years.....		151,196	142,208	128,123	84.74	90.10
NOT CLASSIFIED.....				4,965		
AGRICULTURAL.....		7,305	7,629	6,459	88.42	84.66
1900.....	5	962	1,008	919	95.53	91.17
1901.....	5	727	841	686	94.34	81.57
1902.....	6	1,396	1,469	1,210	86.67	82.37
1903.....	6	1,152	1,266	1,009	87.59	79.70
1904.....	7	1,330	1,338	1,124	84.51	84.01
1905.....	8	1,738	1,707	1,511	86.94	88.52
CLERICAL.....		2,787	868	833	29.89	95.97
1900.....	7	320	43	39	12.19	90.70
1901.....	7	160	21	17	10.62	80.95
1902.....	11	608	194	188	30.92	96.91
1903.....	13	430	123	111	25.81	90.24
1904.....	13	618	191	188	30.42	98.43
1905.....	12	651	296	290	44.55	97.97
COMMERCIAL.....		5,678	3,679	2,841	50.04	77.22
1900.....	22	1,922	808	509	26.48	63.00
1901.....	22	802	346	276	34.41	79.76
1902.....	17	1,218	960	826	67.82	86.04
1903.....	14	607	536	425	70.02	76.43
1904.....	14	482	381	305	63.28	80.05
1905.....	13	647	628	500	77.28	79.62
DOMESTIC SERVICE.....		21,845	19,274	18,172	83.19	94.28
1900.....	12	4,242	3,335	3,193	75.27	95.74
1901.....	12	2,103	1,927	1,697	80.69	88.06
1902.....	11	4,100	3,796	3,539	86.31	93.23
1903.....	11	4,554	4,287	3,972	87.22	92.65
1904.....	10	3,108	2,630	2,565	82.53	96.39
1905.....	10	3,738	3,299	3,206	85.77	97.18
MANUAL LABOR.....		66,008	74,102	63,681	96.47	85.94
1900.....	3	5,708	7,326	5,607	98.23	76.54
1901.....	4	6,172	7,688	5,905	95.67	76.81
1902.....	3	13,840	15,915	13,230	95.59	85.13
1903.....	3	13,548	15,067	13,111	96.77	87.08
1904.....	4	10,497	11,450	10,106	96.27	88.26
1905.....	3	16,243	16,666	15,722	96.79	94.34
PROFESSIONAL.....		189	89	83	43.92	93.26
1900.....	14	61	18	16	26.23	88.89
1901.....	9	39	21	19	48.72	90.48
1902.....	4	23	16	15	65.22	93.75
1903.....	5	31	14	14	45.16	100.00
1904.....	5	22	11	11	50.00	100.00
1905.....	4	13	9	8	61.54	88.89

Table 4—Continued.

SEX AND CLASSES OF OCCUPATIONS.	Number of occupations in each class.	NUMBER OF APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF POSITIONS SECURED FOR—	
		Employment.	Help.		Applicants for employment.	Applicants for help.
TRADES .....		14,283	9,130	7,335	51.35	80.34
1900 .....	82	2,974	1,262	1,042	35.04	82.57
1901 .....	88	1,645	1,083	812	49.36	74.98
1902 .....	70	2,660	1,982	1,618	60.83	81.63
1903 .....	70	2,362	2,027	1,555	65.83	76.71
1904 .....	66	1,959	1,016	819	41.81	80.61
1905 .....	73	2,683	1,760	1,489	55.50	84.60
TRANSPORTATION.....		11,541	9,961	8,830	76.51	88.65
1900 .....	17	2,232	1,579	1,433	64.20	90.75
1901 .....	14	1,354	1,260	981	72.45	77.86
1902 .....	11	2,726	2,570	2,230	81.80	86.77
1903 .....	13	2,062	2,050	1,782	85.18	86.93
1904 .....	11	1,561	1,242	1,156	74.06	93.08
1905 .....	12	1,576	1,260	1,248	79.18	99.05
MISCELLANEOUS.....		21,560	17,476	14,924	69.22	85.40
1900 .....	28	2,721	1,371	1,277	46.93	93.14
1901 .....	37	1,645	1,107	899	54.65	81.21
1902 .....	33	3,588	3,340	2,543	70.91	76.14
1903 .....	38	4,638	4,566	3,695	79.67	80.92
1904 .....	31	4,188	3,366	3,089	72.60	90.29
1905 .....	45	4,784	3,726	3,471	72.55	93.16
Females—totals six years.....		82,276	96,300	76,591	93.09	79.53
NOT CLASSIFIED.....				2,495		
CLERICAL.....		1,619	549	481	29.71	87.61
1900 .....	5	188	62	59	31.38	95.16
1901 .....	4	145	36	34	23.45	94.44
1902 .....	4	347	121	93	26.80	76.86
1903 .....	3	502	100	82	27.15	82.00
1904 .....	3	363	120	115	31.68	93.83
1905 .....	3	274	110	98	35.77	89.09
COMMERCIAL.....		1,181	1,072	576	48.77	53.73
1900 .....	9	282	137	106	37.59	77.37
1901 .....	9	120	111	44	36.67	39.64
1902 .....	9	219	310	103	47.03	33.23
1903 .....	13	181	158	96	53.04	60.76
1904 .....	12	157	131	72	45.86	54.96
1905 .....	9	222	225	155	69.82	68.89
DOMESTIC SERVICE.....		72,889	85,965	67,717	92.90	78.77
1900 .....	17	14,388	17,821	13,983	97.19	80.73
1901 .....	20	9,730	11,408	8,981	92.30	78.73
1902 .....	19	12,857	14,919	11,864	92.28	79.52
1903 .....	23	12,433	15,746	11,461	92.18	72.78
1904 .....	21	12,001	13,278	11,037	91.96	83.12
1905 .....	19	11,480	13,293	10,391	90.51	78.17

Table 4—Continued.

SEX AND CLASS—OF OCCUPATIONS.	Number of occu- pations in each class.	NUMBER OF APPLICATIONS FOR—		Number of positions filled.	PERCENTAGES OF POSITIONS SECURED FOR—	
		Employ- ment.	Help.		WOM- en for employ- ment.	Applicants for help.
PERSONAL SERVICE .....		111	70	46	38.08	90.00
1900 .....	3	25	1	1	4.00	100.00
1901 .....	3	31	9	7	23.33	77.78
1902 .....	3	38	9	9	20.00	98.99
1903 .....	4	19	14	9	20.00	64.29
1904 .....	4	21	13	12	57.14	92.31
1905 .....	4	10	4	3	3.00	75.00
PROFESSIONAL .....		1,547	1,492	1,179	75.95	78.75
1900 .....	5	391	337	296	73.14	94.97
1901 .....	2	245	240	188	76.73	78.33
1902 .....	3	155	282	200	78.43	76.34
1903 .....	3	187	209	147	78.61	70.33
1904 .....	3	254	220	180	70.87	81.82
1905 .....	3	215	224	174	80.93	77.68
TRADES .....		904	1,492	599	74.50	55.36
1900 .....	3	144	270	116	80.56	55.24
1901 .....	7	93	115	62	66.67	53.91
1902 .....	4	138	190	35	68.84	50.00
1903 .....	5	119	149	73	61.34	48.99
1904 .....	2	116	168	100	86.21	59.52
1905 .....	5	194	250	153	78.87	61.20
MISCELLANEOUS .....		4,125	6,089	3,508	85.05	57.60
1900 .....	7	389	725	346	88.95	47.72
1901 .....	7	296	409	251	84.46	61.37
1902 .....	12	911	1,444	749	82.22	51.87
1903 .....	4	856	1,237	751	87.73	60.71
1904 .....	9	918	1,155	689	83.13	58.87
1905 .....	12	865	1,129	731	86.50	65.27

That this exhibit may be correctly understood, it is to be noted that the first annual report (1899), to conform to the fiscal year provided in the law, covered only a period of nine weeks, from Aug. 2, to Sept. 30, 1899; while in the third annual report (1901), the Peoria office represented but three months of its business, namely, from July 1 to Sept. 30, of that year. By reference to the table it will be seen that the showing is for six complete years, with the fractional years referred to omitted. The record is that of 233,472 persons registered in these offices for places to work, during these six years; this is an average of 38,912 for each year. Of the total number registering for places 151,196, or 64.76 per cent were males, and 82,276, or 35.24 per cent females.

The total number of places secured during the six years to those applying for positions was 204,714, being an average of 34,119 for each year; of this total number 128,123, or 62.59 per cent were males, and 76,591, or 37.41 per cent were females.

The highest percentage of positions secured for males was in the class of manual laborers, for females in that of domestic service.

Table 4 is summarized in three additional tables: the first showing, by years, the number of applications for employment registered each year by both sexes; the number of positions secured to each, and the number unfilled. To these tables are added the fractional years, heretofore referred to, making a complete record of all the business transacted during the entire time these offices have been in operation.

TABLE 5—*Number of Applications for Employment, Positions Secured, and Unfilled, by Years.*

YEAR.	APPLICATIONS FOR EMPLOYMENT.								
	NUMBER FILED.			NUMBER OF POSITIONS SECURED.			NUMBER UNFILLED.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1900—3 offices .....	21,142	15,807	36,949	15,322	15,896	31,218	5,484	247	5,731
1901—3 offices .....	14,647	10,650	25,297	12,748	10,018	22,766	1,899	632	2,531
1902—4 offices .....	30,157	14,743	44,900	26,661	13,520	40,181	3,496	1,223	4,719
1903—4 offices .....	29,414	14,096	43,510	26,335	12,892	39,227	3,079	1,204	4,283
1904—4 offices .....	23,763	13,730	37,493	19,405	12,319	31,724	4,358	1,411	5,769
1905—4 offices .....	32,073	13,250	45,323	27,652	11,946	39,598	4,421	1,304	5,725
Total—6 years.....	151,196	82,276	233,472	128,123	76,591	204,714	22,737	6,021	28,758
1899—3 offices, 9 weeks.....	9,825	3,272	13,097	3,752	2,745	6,497	6,073	527	6,600
1901—Peoria office, 9 months...	1,677	631	2,308	877	353	1,230	800	278	1,078
Totals .....	11,502	3,903	15,405	4,629	3,098	7,727	6,873	805	7,678
Grand totals.....	162,698	86,179	248,877	132,752	79,689	212,441	29,610	6,826	36,436

The second table is similar in every respect, and shows the record of employers seeking help.

TABLE 6—*Number of Applications for Help, Positions Secured and Number Unfiled, by Years.*

YEAR.	APPLICATIONS FOR HELP.								
	NUMBER FILED.			NUMBER OF POSITIONS SECURED.			NUMBER UNFILED.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1900—3 offices .....	16,749	18,798	35,542	15,322	15,896	31,218	1,427	2,897	4,324
1901—3 offices .....	14,294	12,329	26,623	12,748	10,018	22,766	1,546	2,311	3,857
1902—4 offices .....	30,243	17,254	47,497	26,661	13,520	40,181	3,581	3,735	7,316
1903—4 offices .....	29,946	17,613	47,559	26,335	12,892	39,227	3,611	4,721	8,332
1904—4 offices .....	21,625	15,085	36,710	19,405	12,319	31,724	2,220	2,766	4,986
1905—4 offices .....	29,351	15,226	44,577	27,652	11,946	39,598	1,699	3,280	4,979
Total—6 years .....	142,208	96,300	238,508	128,123	76,591	204,714	14,084	19,710	33,794
1899—3 offices, 9 weeks .....	6,103	4,267	10,370	3,752	2,745	6,497	2,351	1,522	3,873
1901—Peoria office, 3 months.	1,028	473	1,501	877	353	1,230	151	120	271
Totals .....	7,131	4,740	11,871	4,629	3,098	7,727	2,502	1,642	4,144
Grand totals .....	149,338	101,041	250,379	132,752	79,689	212,441	16,586	21,352	37,938

The third is a table of percentages, which shows in a condensed form the completed work, and the efficiency of these offices as agents in serving both the employé and the employer.

TABLE 7—*Percentages of positions secured for Employes and Employers, by Years.*

YEAR.	POSITIONS SECURED EMPLOYES.			HELP FURNISHED EMPLOYERS.		
	Males.	Females.	Both sexes.	Males.	Females.	Both sexes.
1900 .....	72.47	a 100.56	84.49	91.48	81.58	87.83
1901 .....	b 87.03	c 94.07	89.99	89.18	81.26	85.51
1902 .....	d 88.41	e 91.70	89.49	88.16	78.35	84.60
1903 .....	f 89.53	g 91.46	90.16	87.94	73.20	82.48
1904 .....	h 81.66	i 89.72	81.61	89.73	81.66	86.42
1905 .....	j 86.22	k 90.16	87.37	94.21	78.46	88.83
Six years .....	m 84.74	n 93.09	87.68	90.10	79.53	85.83
1899—Three offices, 9 weeks ....	38.19	83.89	49.61	61.48	64.33	62.65
1901—Peoria office, 3 months ....	52.30	55.94	53.29	85.31	74.63	81.95
Aug. 2, 1899, to Oct. 1, 1905 .....	81.59	92.47	85.36	88.89	78.87	84.85

a Including 336 filed previous year; b including 1,456 filed previous years; c including 451 filed previous year; d including 1,262 filed previous year; e including 408 filed previous year; f including 661 filed previous year; g including 273 filed previous year; h including 92 filed previous year; i including 123 filed previous year; j including 207 filed previous year; k including 241 filed previous year; m including 3,678 filed previous years; n including 1,832 filed previous years.

## SKILLED AND UNSKILLED LABOR.

An arbitrary division as to skilled and unskilled labor has been made from Table 4, which is presented for the six years in the following tables:

TABLE 8—*Skilled Labor, Males and Females, [Number of Applicants for Employment and Help. Positions Secured, with Percentages for Six Years.*

CLASSIFICATION, SKILLED.	NUMBER OF APPLICANTS. FOR—		Number of Positions Secured.	PERCENTAGES OF POSITIONS SECURED. For—	
	Employ- ment.	Help.		Employ- ment.	Help.
Six years—Males.....	22,937	13,766	11,092	48.36	80.57
Clerical.....	2,787	868	833	29.89	95.97
Commercial.....	5,678	3,679	2,841	50.04	77.22
Professional.....	189	89	83	43.92	93.26
Trades.....	14,283	9,130	7,335	51.35	80.34
Six years—Females.....	5,151	4,195	2,831	54.96	67.49
Clerical.....	1,619	549	481	29.71	87.61
Commercial.....	1,181	1,072	576	48.77	53.73
Professional.....	1,547	1,492	1,175	75.95	78.75
Trades.....	804	1,082	599	74.50	55.36

TABLE 9—*Unskilled Labor, Males and Females—Number of Applicants for Employment and Help—Positions Secured, with Percentages for Six Years.*

CLASSIFICATION, UNSKILLED.	NUMBER OF APPLICANTS. For—		Number of positions secured.	PERCENTAGES OF POSITIONS SECURED. For—	
	Employ- ment.	Help.		Employ- ment.	Help.
Six years—Males.....	128,259	128,442	112,066	87.37	87.25
Agricultural.....	7,805	7,629	6,459	88.42	84.66
Domestic Service.....	21,845	19,274	18,172	83.19	94.28
Manual Labor.....	66,008	74,102	63,681	96.47	85.94
Transportation.....	11,541	9,961	8,830	76.51	88.65
Miscellaneous.....	21,560	17,476	14,924	69.22	85.40
Six Years—Females.....	77,125	92,105	71,265	92.40	77.37
Domestic Service.....	72,889	85,965	67,717	92.90	78.77
Personal Service.....	111	50	40	36.34	80.00
Miscellaneous.....	4,125	6,090	3,508	85.04	57.60

Referring to table 8 it will be seen that the demand for male employees in skilled labor met with a supply equal to 80.57 per cent, while for those seeking employment in this class less than one-half secured positions. For females the demands by both employes and employers are more evenly divided. However, the total number in both classes, employes and employers, is a very small proportion of the whole number considered.

For the so-called unskilled labor presented in table 9, the numbers and percentages show a very even division as to both employes and employers.

#### APPLICATIONS FOR EMPLOYMENT.

The detailed work of the four offices for the year is presented in a series of tables that follow. The first showing is the applications registered by persons seeking positions. These are shown separately for males and females; the classification of occupations for males, shows 180 different vocations registered and fifty-four for females.

TABLE 10. *Work of all the Offices—Three in Chicago, One in Peoria Receiving Applications for Employment.*

OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
	North Side.	South Side.	West Side.	Peoria	
Grand Totals	8,131	13,402	16,113	7,677	45,323
Males	4,257	9,142	13,329	5,345	32,073
Females	3,874	4,260	2,784	2,332	13,250
Total males	4,257	9,142	13,329	5,345	32,073
Agents		37	2	6	45
Any light work			137		137
Apprentices			47	6	53
Artists		1			1
Auxiliaries		3			3
Book-keepers			1		1
Boys		15		27	70
Boys' work		3		1	11
Boys' work		15		92	312
Boys' work				1	51
Boys' work					40
Boys' work		15		18	81
Boys' work					24
Boys' work		4			8
Boys' work					3
Boys' work		3	15	2	40
Boys' work		4			4
Boys' work			1		1
Boys' work		2			44
Boys' work			1		530
Boys' work				1	54
Boys' work					21
Boys' work					134
Boys' work					6
Boys' work					23
Boys' work					12
Boys' work					63
Boys' work					4
Boys' work					14

Table 10—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
31	Bricklayers.....		6	1	3	10
32	Brickyard men.....				39	39
33	Brush maker.....				1	1
34	Butchers.....	1	10	13	4	28
35	Butlers.....	2	7	1		10
36	Cabinet makers.....	3	11	65	3	82
37	Calclminers.....		27			27
38	Can maker.....			1		1
39	Candy maker.....			1		1
40	Canvassers.....	39		26	65	130
41	Carpenters.....	43	142	124	40	349
42	Carpet layers.....		16		4	20
43	Carriage and wagon washers.....	5	36	21		62
44	Cashiers.....		3			3
45	Checkers.....			7		7
46	Cigar makers.....	1		1		2
47	Circular distributors.....			36		36
48	Civil engineer.....				1	1
49	Cleaners, wagon.....			3		3
50	Clerks, drug.....				8	8
51	Clerks, dry goods.....		1			1
52	Clerks, grocery.....				18	18
53	Clerks, hotel.....				4	4
54	Clerks, office.....		27			27
55	Clerks, shipping.....		11			11
56	Clerks, not stated.....	50	59	292	17	418
57	Coachmen.....	9	23	24	14	70
58	Coal heaver.....			1		1
59	Coal miners.....			1	15	16
60	Collectors.....	4	8	13	30	55
61	Compositors.....	2				2
62	Cooks.....	58	223	84	99	464
63	Cooper.....			1		1
64	Conductors.....			2		2
65	Copyist.....			1		1
66	Core makers.....			9	1	10
67	Corn huskers.....				12	12
68	Dairy hands.....				22	22
69	Deck hands.....	136	1			137
70	Die setter.....			1		1
71	Dishwasher.....	48	243	39	86	416
72	Distributors.....	13			1	14
73	Draughtsmen.....			1		1
74	Drill pressmen.....			46	18	64
75	Drivers.....	32		119	7	158
76	Druggist.....			1		1
77	Electricians.....	1	14	21	5	41
78	Elevatormen.....	6	60	60		126
79	Engineers.....	4	35	81	22	142
80	Factory hands.....	108	301	796	353	1,548
81	Farmers.....	181				181
82	Farm hands.....		333	465	296	1,093
83	Fireman.....	6	66	107	24	203
84	Finishers.....	2				2
85	Florists.....		46	3		49
86	Foremen.....				2	2
87	Foundrymen.....			7		7
88	Furnace tenders.....			2		2
89	Gardeners.....	8	2	19	1	30
90	Guards.....	5				5
91	Handymen.....	165				165
92	Harness makers.....		2	3		5
93	Hat cleaner.....		1	1		2
94	Harvest hands.....				30	30
95	Horse shoer.....					
96	Hostlers.....		17	18	4	39
97	Hotel work.....				51	51
98	Housemen.....	369	498	89	117	1,073
99	Ice cream makers.....			1		1
100	Interpreter.....		1			1
101	Iron workers.....			12	2	14
102	Janitors.....	86	158	138	23	405
103	Kitchenwork.....	18	147	25	21	211



Table 10—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
104	Laborers.....	1,976	1,944	7,037	2,491	13,448
105	Laborers, railroad.....		2,358		436	2,794
106	Lathe hands.....	7		12		19
107	Lathers.....			5		5
108	Laundrymen.....		13	14	1	28
109	Locksmiths.....		14			14
110	Machine hands.....		14	130		144
111	Machinists.....	9	35	243	59	346
112	Meat cutters and slaughterers.....				4	4
113	Messengers.....	1	1			2
114	Metal workers.....			11		11
115	Milkmen.....		7			7
116	Miller.....			1		1
117	Mill hands.....				2	2
118	Millwrights.....		10	7	3	20
119	Miners.....		13			13
120	Models.....		2			2
121	Molders.....	32	6	37	21	96
122	Molder's helpers.....			77		77
123	Motormen.....		8			8
124	Nurses.....	1	7			8
125	Office help.....	40		1	22	63
126	Oilers.....	1		13		14
127	Orderlies.....		4			4
128	Packers.....	4	54	87	2	147
129	Painters.....	15	39	39	16	109
130	Paper hangers.....	3	6	2	1	12
131	Pantrymen.....		2	1		3
132	Panwashers.....	12			18	30
133	Pattern makers.....		2	1		3
134	Photographers.....			1		1
135	Piano finisher.....			1		1
136	Piano tuner.....			1		1
137	Plasterers.....			1	2	3
138	Plumbers.....		1	5		6
139	Polishers, metal.....			4		4
140	Polishers, not stated.....			15	1	16
141	Porters.....	235	501	239	106	1,081
142	Pressers.....		9	4		13
143	Pressfeeders.....				4	4
144	Printers.....	4	4	4		12
145	Pumpmen.....				1	1
146	Punch press hands.....			23	2	25
147	Railroad men.....			3		3
148	Roofer.....		1			1
149	Sailors.....			2		2
150	Salesmen.....	6	6	27	30	69
151	Sawyers.....			8		8
152	Shoemakers.....			5	1	6
153	Solicitors.....	14	55	17	4	90
154	Steam fitters.....		11	9	4	24
155	Stenographers.....		7	4	2	13
156	Stockkeepers.....			103		103
157	Stockmen.....	63	258			321
158	Stovemenn.....				5	5
159	Surveyor.....		1			1
160	Tailors.....	2	6	4	2	14
161	Teamsters.....	46	91	122	160	419
162	Timekeepers.....			7		7
163	Tinsmiths.....	16	6	22	4	48
164	Tool makers.....	2		14		16
165	Truckmen.....		14	409	16	439
166	Trunk maker.....			1		1
167	Undertaker.....	1				1
168	Upholsterers.....	3	11	2	1	17
169	Vice hand.....			7		7
170	Wagon maker.....					
171	Walters.....	9	359	28	34	430
172	Watchmakers.....				2	2
173	Watchmen.....	9	24	134	5	172
174	Whitewasher.....	1				1
175	Wholesale men.....			15		15
176	Window dresser.....					

Table 10—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
177	Window washers.....	59	147	33	3	242
178	Wood finishers.....			4		4
179	Wood workers.....			10	18	28
180	Yardmen.....	1	112	10	61	184
181	Miscellaneous, not classified.....			748	10	758

## FEMALES.

	Total females.....	3,874	4,260	2,784	2,332	13,250
1	Addressers.....	1		17	8	26
2	Agent.....			1		1
3	Apprentice.....			1		1
4	Bookkeepers.....	2	2		14	18
5	Bookbinders.....		1			1
6	Bottle labelers.....			27		27
7	Bottle washers.....			17		17
8	Canvassers.....	2		8	6	16
9	Cashiers.....	1	9	9	10	29
10	Clerks.....	15	8	6	62	91
11	Chambermaids.....	233	361	239	160	993
12	Collectors.....				7	7
13	Companions.....	1		1	4	6
14	Cooks.....	390	423	209	105	1,127
15	Copyists.....			2		2
16	Dayworkers.....	378	212	193	208	991
17	Demonstrators.....		3		1	4
18	Dining room help.....	115		54	174	343
19	Dishwashers.....	209	316	127	169	821
20	Domestics.....			571		571
21	Dressmakers.....			2		2
22	Factory work.....	107	214	335	114	770
23	Finisher.....			1		1
24	Folders, circulars.....			4		4
25	Fruit pickers.....			21		21
26	General housework.....	1,545			757	2,302
27	Governess.....	1				1
28	Hotel help.....			8	29	37
29	Housekeepers.....	67	92	120	105	384
30	Housework.....		1,282		4	1,286
31	Janitresses.....	3		5	11	19
32	Kitchen help.....	291	295	166	98	850
33	Labelers.....				13	13
34	Lady's maid.....			1		1
35	Laundresses.....	73	98	147	3	321
36	Matron.....			1		1
37	Milliner.....					1
38	Nurses.....	90	71	44	8	213
39	Nurse girls.....				37	37
40	Office work.....	7	64	13	71	155
41	Pantry work.....	37	48	18	19	122
42	Panwasher.....	1				1
43	Presser.....				1	1
44	Reception service.....		1	4		5
45	Saleswoman.....	1	4	3		8
46	Scrub woman.....	33	260	154	10	507
47	Seamstresses.....	61	34	74	16	185
48	Second work.....	95	70	26	43	234
49	Solicitors.....		4	4	6	14
50	Switchboard operators.....			5		5
51	Stenographers.....	13	30	11	47	101
52	Tailoresses.....				2	2
53	Teacher, not stated.....		1			1
54	Waitresses.....	49	355	134	10	548

Comparing the number of males registering at the different offices, it will be seen that the West Side office accounts for 13,329 applicants, this number is almost equal to the applicants of both the North and South Side offices combined. This is explained by the very large number of laborers filing applications at the West Side office.

For females the number of applicants for employment shows a more even distribution among the different offices.

#### APPLICATIONS FOR HELP.

The number of employers seeking help at the several offices is presented in the following table:

TABLE 11—*Work of All the Offices—Three in Chicago, One in Peoria—Receiving Applications for Help.*

#### MALES.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Grand totals.....	9,413	14,962	12,967	7,245	44,577
	Males.....	4,603	9,777	10,034	4,937	29,351
	Females.....	4,810	5,185	2,923	2,308	15,226
	Total males.....	4,603	9,777	10,034	4,937	29,351
1	Agents.....		34		5	39
2	Any light work.....			4		4
3	Apprentices.....			8	5	13
4	Architect.....		1			1
5	Artist.....		1			1
6	Baggagemen.....			2		2
7	Bakers.....	2	16	5	24	47
8	Barbers.....	1	4	6	1	12
9	Barmen.....	70	98	31	88	287
10	Bartenders.....	7	13	10		30
11	Bench hands.....			7		7
12	Blacksmiths.....	2	20	20	12	54
13	Blacksmith helpers.....			6		6
14	Boiler makers.....		4			4
15	Bookbinder.....			1		1
16	Bookkeepers.....	3	10			13
17	Bootblacks.....		3			3
18	Box makers.....		37			37
19	Boys.....	219		221	1	441
20	Boys, bell.....		14		48	62
21	Boys, cash.....		23			23
22	Boys, delivery.....		47		88	135
23	Boys, elevator.....				6	6
24	Boys, errand.....		73		25	98
25	Boys, factory.....				12	12
26	Boys, office.....		68		4	72
27	Brass finisher.....			1		1
28	Bricklayers.....		11		2	13
29	Brickyard men.....				39	39
30	Butchers.....	2	9	2	2	15
31	Butlers.....	3	7			10
32	Cabinet makers.....	5	27	38	4	74
33	Calcinimers.....		25			25
34	Canvassers.....	44		21	67	132
35	Carpenters.....	50	149	77	35	311
36	Carpet layers.....		15		4	19
37	Carriage and wagon washers.....	5	33	16		54
38	Cashiers.....		3			3

Table 11—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
39	Checkers.....			3		3
40	Cigar maker.....	1				1
41	Circular distributors.....			35		35
42	Cleaners, harness.....			2		2
43	Clerks, drug.....				8	8
44	Clerk, dry goods.....		1			1
45	Clerks, grocery.....				9	9
46	Clerks, hotel.....				4	4
47	Clerks, office.....		21			21
48	Clerks, shipping.....		9			9
49	Clerks, not stated.....	50	36	45	10	141
50	Coachmen.....	9	19	15	7	50
51	Coal miners.....			1	22	23
52	Collectors.....	3	5	1	21	30
53	Compositors.....	2				2
54	Cooks.....	59	201	32	83	375
55	Core makers.....			2	1	3
56	Corn huskers.....				16	16
57	Dairy hands.....				21	21
58	Deck hands.....	151	1			152
59	Dishwashers.....	47	237	28	87	399
60	Distributors.....	20			1	21
61	Drill pressmen.....			10	13	23
62	Drivers.....	30		27	7	64
63	Electricians.....	1	9	1	3	14
64	Elevatormen.....	4	53	13		70
65	Engineers.....	3	25	29	8	65
66	Factory hands.....	121	344	426	279	1,170
67	Farmers.....	187				187
68	Farm hands.....		450	342	293	1,085
69	Finishers.....	8				8
70	Firemen.....	6	54	11	13	84
71	Florists.....		40			40
72	Furnace tenders.....			2		2
73	Gardeners.....	8	2	4	1	15
74	Guards.....	5				5
75	Handymen.....	167				167
76	Harness makers.....		2	1		3
77	Harvest hands.....				30	30
78	Hat cleaner.....		1			1
79	Horseshoer.....			1		1
80	Hostlers.....		17	14	4	35
81	Hotel work.....				50	50
82	Housemen.....	380	463	38	108	989
83	Ice cream maker.....			1		1
84	Interpreter.....		1			1
85	Iron workers.....				2	2
86	Janitors.....	85	130	32	15	262
87	Kitchenwork.....	17	135	11	25	188
88	Laborers.....	2,207	2,214	6,829	2,339	13,589
89	Laborers, railroad.....		2,627		450	3,077
90	Lathe hands.....	6				6
91	Laundrymen.....		13	12	1	26
92	Machine hands.....		14	14		28
93	Machinists.....	8	34	38	51	132
94	Meat cutters and slaughterers.....				3	3
95	Messengers.....	1	1			2
96	Metal workers.....			5		5
97	Mill hand.....				1	1
98	Milkmen.....		7			7
99	Millwrights.....		12	2	3	17
100	Miners.....	1	92			93
101	Models.....		3			3
102	Molders.....	50	36	2	27	115
103	Molder helpers.....			75		75
104	Motor men.....		8			8
105	Nurses.....	1	6			7
106	Office help.....	40			7	47
107	Oilers.....	1		1		2
108	Orderlies.....		4			4
109	Packers.....	4	50	48	2	104
110	Painters.....	15	34	9	12	70
111	Paperhangers.....	3	7	2		12

Table 11—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR HELP TO OFFICES.				Total.
		North Side.	South Side.	West Side.	Peoria.	
112	Pantrymen .....		2			2
113	Panwashers .....	18			18	31
114	Pattern makers .....		5			3
115	Plasterers .....			1	2	3
116	Polishers, not stated .....			2		2
117	Porters .....	229	457	124	90	900
118	Press feeders .....		9		2	11
119	Pumpmen .....				1	1
120	Printers .....	4	1			5
121	Punch press hands .....			1	2	3
122	Roofer .....		1			1
123	Sailors .....			2		2
124	Salesmen .....		6		14	29
125	Sawyers .....		1	5		6
126	Shoemakers .....			1	1	3
127	Solicitors .....	18	108	16	4	141
128	Steamfitters .....		10	2		12
129	Stenographers .....		3	1		4
130	Stockmen .....	68	245	86		399
131	Stovemcn .....				4	4
132	Tailors .....	3	9		2	14
133	Teamsters .....	44	84	57	147	332
134	Tinsmiths .....	19	6	8	3	36
135	Toolmakers .....	2		2		4
136	Truckmen .....		14	388	16	418
137	Undertaker .....	1				1
138	Upholsterers .....	4	9	2		15
139	Wagonmakers .....					6
140	Waiters .....	8	330	15	33	386
141	Watchmakers .....				2	2
142	Watchmen .....	9	64	62	1	138
143	Whitewasher .....	1				1
144	Window washers .....	65	152	30	3	250
145	Wood finishers .....			4		4
146	Wood workers .....			2	17	19
147	Yardmen .....	1	104	8	56	159
148	Miscellaneous, not classified .....			560	10	570

## FEMALES.

	Total females .....	4,810	5,185	2,923	2,308	15,226
1	Addressers .....	1		9	8	18
2	Agents .....		8			8
3	Baker .....	1				1
4	Bookbinders .....		3			3
5	Bookkeepers .....			1	4	5
6	Bottle labelers .....			29		29
7	Bottle washers .....			18		18
8	Canvassers .....	25		10	6	41
9	Cashiers .....	2	2		8	12
10	Clerks .....	19	7	2	45	73
11	Collectors .....				7	7
12	Chambermaids .....	265	420	198	158	1,041
13	Companions .....	1		1	1	3
14	Cooks .....	466	485	156	99	1,206
15	Dayworkers .....	384	220	49	121	774
16	Demonstrator .....		1			1
17	Dining-room help .....	176		55	173	404
18	Dishwashers .....	242	366	105	167	870
19	Domestics .....			999		999
20	Dressmakers .....			2		2
21	Factory work .....	204	273	445	95	1,017
22	Folders, circular .....			5		5
23	Fruit pickers .....			40		40
24	General housework .....	1,914			1,033	2,947
25	Governess .....	1				1
26	Hotel help .....			10	23	33
27	Housekeepers .....	75	86	78	88	327

Table 11—Concluded.

Number.	OCCUPATION.	APPLICATIONS FOR HELP TO OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
28	Housework .....		1,803		4	1,807
29	Janitresses .....	3		3	10	16
30	Kitchen help .....	315	316	132	98	861
31	Labelers .....		2		13	15
32	Laundresses .....	93	115	141	3	352
33	Nurses .....	104	74	40	5	223
34	Nurse girls .....				28	28
35	Office work .....	8	38	3	7	56
36	Pantry work .....	40	52	12	18	122
37	Panwashers .....	2				2
38	Presser .....				1	1
39	Reception service .....			1		1
40	Saleswomen .....	2	4	3		9
41	Scrubwomen .....	94	283	134	10	521
42	Seamstresses .....	125	32	77	9	243
43	Second work .....	118	96	19	39	272
44	Solicitors .....	6	18	5	6	35
45	Stenographers .....	15	21	7	6	49
46	Tailoresses .....				2	2
47	Waitresses .....	107	470	136	8	721

The classification as to occupations shows 147 for males and forty-seven for females.

## POSITIONS SECURED.

The ultimate and most important purpose of these offices is reached by securing positions for the large number of persons seeking work of various kinds, through the medium thus provided by the State. These results are shown in the following table:

TABLE 12—Work of all the Offices—Three in Chicago and One in Peoria—Securing Positions.

Number	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Totals .....	8,025	12,705	12,040	6,828	39,598
	Males .....	4,216	8,622	10,010	4,904	27,652
	Females .....	3,809	4,083	2,030	2,024	11,946
	Total males .....	4,216	8,622	10,010	4,904	27,652
	Males .....	4,025	8,606	10,010	4,804	27,445
	Positions filled from previous applica- tions .....	191	16			207
1	Agents .....		34		5	39
2	Any light work .....			4		4
3	Apprentices .....			9	5	13
4	Architect .....		1			1
5	Artist .....		1			1
6	Baggagemen .....			2		2
7	Bakers .....	2	16	5	24	47
8	Barbers .....		3	5	1	9
9	Barnmen .....	61	97	31	37	226
10	Bartenders .....	5	13	10		28

Table 12—Continued.

Number.	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
11	Bench hands.....			7		7
12	Blacksmiths.....	2	18	18	12	50
13	Blacksmith helpers.....			6		6
14	Boiler makers.....		4			4
15	Bookbinders.....			1		1
16	Bookkeepers.....	3	9			12
17	Bootblacks.....		3			3
18	Box makers.....		37			37
19	Boys.....	171		220	1	392
20	Boys, bell.....		10		42	52
21	Boys, cash.....		20			20
22	Boys, delivery.....		41		85	126
23	Boys, elevator.....				6	6
24	Boys, errand.....		56		20	76
25	Boys, factory.....				12	12
26	Boys, office.....		55		4	59
27	Brass finisher.....			1		1
28	Bricklayers.....		6		2	8
29	Brickyard men.....				39	39
30	Butchers.....	1	9	2	2	14
31	Butlers.....	2	7			9
32	Cabinet makers.....	3	10	38	3	54
33	Calclminers.....		25			25
34	Canvassers.....	20		21	63	104
35	Carpet layers.....		15		4	19
36	Carpenters.....	38	138	76	35	287
37	Carriage and wagon washers.....	5	52	16		53
38	Cashiers.....		3			3
39	Checkers.....			3		3
40	Cigar maker.....	1				1
41	Circular distributors.....			35		35
42	Cleaners, harness.....			2		2
43	Clerks, drug.....				8	8
44	Clerks, dry goods.....		1			1
45	Clerks, grocery.....				9	9
46	Clerks, hotel.....				4	4
47	Clerks, office.....		21			21
48	Clerk, shipping.....		9			9
49	Clerks, not stated.....	46	35	45	10	136
50	Coachmen.....	9	19	15	7	50
51	Coal miners.....			1	15	16
52	Collectors.....	1	5	1	21	28
53	Compositors.....	2				2
54	Cooks.....	52	190	32	78	352
55	Core makers.....			2		2
56	Corn huskers.....				12	12
57	Dairy hands.....				21	21
58	Deck hands.....	131	1			132
59	Dishwashers.....	47	233	28	86	394
60	Distributors.....	13			1	14
61	Drill pressmen.....			10	13	23
62	Drivers.....	29		27	7	63
63	Electricians.....		9	1	2	12
64	Elevatormen.....	4	52	13		69
65	Engineers.....	3	24	29	8	64
66	Factory hands.....	101	294	426	258	1,079
67	Farmers.....	161				161
68	Farm hands.....		313	336	283	932
69	Finishers.....	5				5
70	Firemen.....	6	54	11	13	84
71	Florists.....		40			40
72	Furnace tenders.....			2		2
73	Gardeners.....	8	2	4	1	15
74	Handymen.....	163				163
75	Harness makers.....		2	1		3
76	Harvest hands.....				30	30
77	Hat cleaner.....		1			1
78	Horseshoer.....			1		1
79	Hostlers.....		17	14	4	35
80	H tel work.....				49	49
81	Housemen.....	362	456	38	106	962
81	Ice cream maker.....			1		1
83	Interpreter.....		1			1

Table 12—Continued.

Number.	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
84	Iron workers.....				2	2
85	Janitors.....	83	128	30	14	255
86	Kitchenwork.....	16	135	11	21	183
87	Laborers.....	1,920	1,891	6,828	2,308	12,947
88	Laborers, railroad.....		2,339		436	2,775
89	Lathe hands.....	6				6
90	Laundrymen.....		12	12	1	25
91	Machine hands.....		14	14		28
92	Machinists.....	7	33	38	51	129
93	Meat cutters and slaughterers.....				3	3
94	Messengers.....	1	1			2
95	Metal workers.....			5		5
96	Milkmen.....		7			7
97	Mill hand.....				1	1
98	Millwrights.....		8	2	3	13
99	Miners.....		11			11
100	Models.....		2			2
101	Molders.....	30	6	2	20	58
102	Molders helpers.....			75		75
103	Motormen.....		8			8
104	Nurses.....	1	5			6
105	Office help.....	40			7	47
106	Oilers.....	1		1		2
107	Orderlies.....		4			4
108	Packers.....	4	46	48	2	100
109	Painters.....	14	31	9	12	66
110	Paper hangers.....	2	5	2		9
111	Pantrymen.....		2			2
112	Panwashers.....	12			18	30
113	Pattern makers.....		2			2
114	Plasterers.....			1	2	3
115	Polishers, not stated.....			2		2
116	Porters.....	221	447	124	90	882
117	Press feeders.....		7		2	9
118	Press-man.....				1	1
119	Printers.....	1	1			2
120	Punch press hands.....			1	2	3
121	Roofer.....		1			1
122	Sailors.....			2		2
123	Salesmen.....		6	9	13	28
124	Sawyers.....		1	5		6
125	Shoemakers.....			1	1	2
126	Solicitors.....	3	53	16	4	76
127	Steam fitters.....		10	2		12
128	Stenographers.....		3	1		4
129	Stockmen.....	62	238	86		386
130	Stovemn.....				4	4
131	Tailors.....	2	6		2	10
132	Teamsters.....	42	82	57	146	327
133	Tinsmiths.....	12	4		3	27
134	Toolmakers.....	2		8		4
135	Truckmen.....		14	388	16	418
136	Undertakers.....	1				1
137	Upholsterers.....	1	8	2		11
138	Wagonmakers.....			6		6
139	Waiters.....	8	321	12	32	373
140	Watchmakers.....				2	2
141	Watchmen.....	9	23	62	1	95
142	Whitewashers.....	1				1
143	Window washer.....	59	145	30	3	237
144	Wood finishers.....			4		4
145	Woodworkers.....			2	17	19
146	Yardmen.....	1	104	8	56	169
147	Miscellaneous, not classified.....			553	10	563



Table 12—Concluded.

## FEMALES.

Number.	OCCUPATIONS.	POSITIONS SECURED BY OFFICES—				Total.
		North Side.	South Side.	West Side.	Peoria.	
	Total.....	3,809	4,083	2,030	2,024	11,946
	Females.....	3,697	3,955	2,030	2,024	11,705
	From previous applications..	113	128			241
1	Addressers.....	1		8	8	17
2	Bookkeepers.....			1	4	5
3	Bottle labelers.....			26		26
4	Bottle washers.....			16		16
5	Canvassers.....	2		6	6	14
6	Cashiers.....	1	2		8	11
7	Clerks.....	13	5	2	45	65
8	Collectors.....				7	7
9	Chambermaids.....	229	340	187	157	913
10	Companions.....	1			1	2
11	Cooks.....	376	398	106	98	980
12	Dayworkers.....	371	202	43	120	736
13	Dining-room help.....	108		42	173	323
14	Dishwashers.....	198	294	93	167	752
15	Domestics.....			522		522
16	Factory work.....	87	193	288	95	663
17	Folders—Circulars.....			4		4
18	Fruit pickers.....			21		21
19	General housework.....	1,515			755	2,270
20	Governess.....	1				1
21	Hotel help.....			7	28	35
22	Housekeepers.....	50	77	50	86	263
23	Housework.....		1,233			1,233
24	Ironers.....				4	4
25	Janitresses.....	2		1	10	13
26	Kitchen help.....	277	274	121	98	770
27	Labelers.....				13	13
28	Lady's maid.....		1			1
29	Laundresses.....	68	85	123	2	278
30	Nurses.....	72	67	29	5	173
31	Nurse girl.....				28	28
32	Office work.....	5	36	2	7	50
33	Pantry work.....	35	43	9	18	105
34	Panwasher.....	1				1
35	Presser.....				1	1
36	Reception service.....			1		1
37	Saleswoman.....	1	1	1		3
38	Scrubwoman.....	82	233	131	10	476
39	Seamstresses.....	53	29	60	9	151
40	Second work.....	89	65	12	39	205
41	Solicitors.....		2	4	6	12
42	Stenographers.....	12	19	6	6	43
43	Tailoresses.....				2	2
44	Waitresses.....	46	336	106	8	496

The first line in the table shows the total number of persons placed in the several occupations by each of the offices.

The total number for whom positions were secured was 39,598, of these 27,652, or 69.83 per cent were males, and 11,946, or 30.17 per cent were females.

Observing the different occupations for males, and the number securing places, it will be seen that applicants of laborers are far in excess of any other occupation; they account for 56.86 per cent of the total number. Directing attention to the occupations of females, it

is found that positions were secured for 80 per cent of the total number desiring work in what may be termed domestic or household service, such as chambermaids, cooks, day workers, dining room help, dishwashers, domestic service, general house work, housekeepers, kitchen work and waiters. However, the next table presented gives the total number of both applications for employment and help, with the number of positions secured, by the four offices combined, also the percentages of positions secured for both classes of applicants:

TABLE 13—*Number of Applications for Employment, Applications for Help, Positions Secured, also Percentages of Positions Secured Applicants for Employment and Applicants for Help—Four Offices.*

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
	Grand totals.....	45,323	44,577	*39,598	87.37	88.83
	Males.....	32,073	29,351	†27,652	86.22	91.21
	Females.....	13,250	15,226	†11,946	90.16	78.46
	MALES.....	32,073	29,351	27,652	86.22	91.21
1	Agents.....	45	39	39	86.67	100.00
2	Any light work.....	137	4	4	2.92	100.00
3	Apprentices.....	53	13	13	24.53	100.00
4	Architect.....	1	1	1	100.00	100.00
5	Artists.....	3	1	1	33.33	100.00
6	Auctioneer.....	1				
7	Baggagemen.....	2	2	2	100.00	100.00
8	Bakers.....	70	47	47	67.14	100.00
9	Barbers.....	11	12	9	81.82	75.00
10	Barnmen.....	312	287	282	90.38	98.62
11	Bartenders.....	51	30	28	54.90	93.33
12	Bench hands.....	40	7	7	17.50	100.00
13	Blacksmiths.....	81	54	50	61.73	92.59
14	Blacksmith helpers.....	24	6	6	25.00	100.00
15	Boiler makers.....	8	4	4	50.00	100.00
16	Bookbinders.....	3	1	1	33.33	100.00
17	Bookkeepers.....	40	13	12	30.00	92.31
18	Bootblacks.....	4	3	3	75.00	100.00
19	Bottler.....	1				
20	Boxmakers.....	44	37	37	84.09	100.00
21	Boys.....	530	441	392	73.96	88.89
22	Boys, bell.....	54	62	52	96.30	83.87
23	Boys, cash.....	21	23	20	95.24	86.96
24	Boys, delivery.....	134	135	126	94.03	93.33
25	Boys, elevator.....	6	6	6	100.00	100.00
26	Boys, errand.....	78	98	76	97.44	77.55
27	Boys, factory.....	12	12	12	100.00	100.00
28	Boys, office.....	63	72	59	93.65	81.94
29	Brakemen.....	4				
30	Brass finishers.....	14	1	1	7.14	7.14
31	Bricklayers.....	10	13	8	80.00	61.54
32	Brickyard men.....	39	39	39	100.00	100.00
33	Brush maker.....	1				
34	Butchers.....	28	15	14	50.00	93.33
35	Butlers.....	10	10	9	90.00	90.00
36	Cabinet makers.....	82	74	54	65.85	72.97
37	Calclminers.....	27	25	25	92.59	100.00

\*Including 448 applications filed the previous year.

†Including 207 applications filed the previous year.

‡Including 241 applications filed the previous year.

Table 13—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
38	Can maker .....	1				
39	Candy maker .....	1				
40	Canvassers .....	130	132	104	80.00	78.78
41	Carpenters .....	349	311	287	82.23	92.28
42	Carpet layers .....	20	19	19	95.00	100.00
43	Carriage and wagon makers .....	62	54	53	85.48	98.15
44	Cashiers .....	3	3	3	100.00	100.00
45	Checkers .....	7	3	3	42.86	100.00
46	Cigar makers .....	2	1	1	50.00	100.00
47	Circular distributors .....	36	35	35	97.22	100.00
48	Civil engineer .....	1				
49	Cleaners, wagon .....	3	2	2	66.67	100.00
50	Clerks, drug .....	8	8	8	100.00	100.00
51	Clerk, dry goods .....	1	1	1	100.00	100.00
52	Clerks, grocery .....	18	9	9	50.00	100.00
53	Clerks, hotel .....	4	4	4	100.00	100.00
54	Clerks, office .....	27	21	21	78.15	100.00
55	Clerks, shipping .....	11	9	9	81.82	100.00
56	Clerks, not stated .....	418	141	136	32.54	96.45
57	Coachmen .....	70	50	50	71.43	100.00
58	Coal heaver .....	1				
59	Coal miners .....	16	23	16	100.00	69.56
60	Collectors .....	55	30	28	50.91	93.33
61	Compositors .....	2	2	2	100.00	100.00
62	Cooks .....	464	375	352	75.86	93.87
63	Cooper .....	1				
64	Conductors .....	2				
65	Copyist .....	1				
66	Core makers .....	10	3	2	30.00	66.67
67	Corn huskers .....	12	16	12	100.00	75.00
68	Dairy hands .....	22	21	21	94.45	100.00
69	Deck hands .....	137	152	132	96.35	86.84
70	Die setter .....	1				
71	Dishwashers .....	416	399	394	94.71	98.75
72	Distributors .....	14	21	14	100.00	66.67
73	Draughtsman .....	1				
74	Drill pressmen .....	64	23	23	35.94	100.00
75	Drivers .....	158	64	63	39.87	98.44
76	Druggist .....	1				
77	Electricians .....	41	14	12	29.27	85.71
78	Elevatormen .....	126	70	69	54.76	98.43
79	Engineers .....	142	65	64	45.17	98.46
80	Factory hands .....	1,548	1,170	1,079	69.70	92.22
81	Farmers .....	181	187	161	88.95	86.09
82	Farm hands .....	1,093	1,085	932	85.27	85.90
83	Firemen .....	203	84	84	41.38	100.00
84	Finishers .....	8	8	5	62.50	62.50
85	Florists .....	4	40	40	81.63	100.00
86	Foremen .....	2				
87	Foundrymen .....	7				
88	Furnace tenders .....	2	2	2	100.00	100.00
89	Gardeners .....	30	15	15	50.00	100.00
90	Guards .....	5	5			
91	Handymen .....	165	167	163	98.79	97.61
92	Harness makers .....	5	3	3	60.00	100.00
93	Hat cleaner .....	1	1	1	100.00	100.00
94	Harvest hands .....	30	30	30	100.00	100.00
95	Horseshoer .....	1	1	1	100.00	100.00
96	Hostlers .....	39	35	35	89.74	100.00
97	Hotel work .....	51	50	49	96.08	98.00
98	Housemen .....	1,073	989	962	89.66	97.27
99	Ice cream maker .....	1	1	1	100.00	100.00
100	Interpreter .....	1	1	1	100.00	100.00
101	Iron workers .....	14	2	2	14.29	100.00
102	Janitors .....	405	262	255	62.96	97.33
103	Kitchen work .....	211	188	183	86.73	97.34
104	Laborers .....	13,448	13,589	12,947	96.27	95.28
105	Laborers, railroad .....	2,794	3,077	2,775	99.32	90.19
106	Lathe hands .....	19	6	6	31.58	100.00

Table 13—Continued.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGE OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
107	Lathers .....	5				
108	Laundrymen .....	28	26	25	89.29	92.31
109	Locksmiths .....	4				
110	Machine hands .....	144	28	28	19.44	100.00
111	Machinists .....	346	131	129	37.28	98.47
112	Meat cutters and slaughterers .....	4	3	3	75.00	100.00
113	Messengers .....	2	2	2	100.00	100.00
114	Metal workers .....	11	5	5	45.45	100.00
115	Milkmen .....	7	7	7	100.00	100.00
116	Miller .....	1				
117	Mill hands .....	2	1	1	50.00	100.00
118	Millwrights .....	20	17	13	65.06	76.82
119	Miners .....	13	93	11	84.61	11.82
120	Models .....	2	3	2	100.00	66.67
121	Molders .....	96	115	58	66.63	50.43
122	Molders' helpers .....	77	75	75	97.40	100.00
123	Motormen .....	8	8	8	100.00	100.00
124	Nurses .....	8	7	6	75.00	85.71
125	Office help .....	63	47	47	74.60	100.00
126	Oilers .....	14	2	2	14.29	100.00
127	Orderlies .....	4	4	4	100.00	100.00
128	Packers .....	147	101	100	68.08	96.15
129	Painters .....	109	70	66	60.55	94.29
130	Paper hangers .....	12	12	9	75.00	75.00
131	Pantrymen .....	3	2	2	66.67	100.00
132	Panwashers .....	30	31	30	100.00	96.67
133	Pattern makers .....	3	3	2	100.00	66.67
134	Photographers .....	1				
135	Piano finishers .....	1				
136	Piano tuners .....	1				
137	Plasterers .....	3	3	3	100.00	100.00
138	Plumbers .....	6				
139	Polishers, metal .....	4				
140	Polishers, not stated .....	16	2	2	12.50	100.00
141	Porters .....	1,061	900	882	81.59	98.00
142	Pressers .....	13	9	7	53.85	77.78
143	Press feeders .....	4	2	2	50.00	100.00
144	Printers .....	12	5	2	41.67	16.67
145	Pumpman .....	1	1	1	100.00	100.00
146	Punch press hands .....	25	3	3	12.00	100.00
147	Railroad men .....	3				
148	Roofer .....	1				
149	Sailors .....	2	2	2	100.00	100.00
150	Salesmen .....	69	29	28	40.72	96.55
151	Sawyers .....	8	6	6	75.00	100.00
152	Shoemakers .....	6	3	2	33.33	66.67
153	Solicitors .....	90	141	76	84.44	53.90
154	Steamfitters .....	24	12	12	50.00	100.00
155	Stenographers .....	13	4	4	30.77	100.00
156	Stockkeepers .....	103	86	86	83.49	100.00
157	Stockmen .....	321	313	300	93.46	95.85
158	Stovemem .....	5	4	4	80.00	100.00
159	Surveyor .....	1				
160	Tailors .....	14	14	10	71.43	71.43
161	Teamsters .....	419	342	327	78.04	98.49
162	Timekeepers .....	7				
163	Tinsmiths .....	48	36	27	56.25	75.00
164	Tool makers .....	16	4	4	25.00	100.00
165	Truckmen .....	439	418	418	95.22	100.00
166	Trunkmaker .....	1				
167	Undertaker .....	1	1	1	100.00	100.00
168	Upholsterers .....	17	15	11	64.71	73.33
169	Vice band .....	1				
170	Wagon makers .....	7	6	6	85.71	100.00
171	Walters .....	430	386	373	86.74	96.63
172	Watchmakers .....	2	2	2	100.00	100.00
173	Watchmen .....	172	136	95	55.23	69.85
174	Whitewasher .....	1	1	1	100.00	100.00
175	Wholesale men .....	15				
176	Window dresser .....	1				
177	Window washers .....	242	250	237	97.93	94.80

Table 13—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGE OF—	
		Employment.	Help.		Positions secured applicants for employment.	Positions filled applicants for help.
178	Wood finishers .....	4	4	4	100.00	100.00
179	Wood workers .....	28	19	19	67.86	100.00
180	Yardmen .....	184	169	169	91.85	100.00
181	Miscellaneous, not classafied.....	758	570	563	74.27	98.77
	<b>FEMALES .....</b>	<b>13,250</b>	<b>15,226</b>	<b>11,946</b>		
1	Addressers .....	26	18	17	65.38	94.44
2	Agents .....	1	8			
3	Apprentice .....	1				
4	Bookkeepers .....	18	5	5	27.78	100.00
5	Bookbinders .....	1	8			
6	Bottle labelers .....	27	29	26	96.30	89.66
7	Bottle washers .....	17	18	16	94.12	88.89
8	Canvassers .....	16	41	14	87.50	34.15
9	Cashiers .....	29	12	11	37.93	91.67
10	Clerks .....	91	73	65	71.43	89.04
11	Chambermaids .....	993	1,041	913	91.94	87.70
12	Collectors .....	7	7	7	100.00	100.00
13	Companions .....	7	3	2	28.57	66.67
14	Cooks .....	1,127	1,206	980	86.96	81.26
15	Copyists .....	2				
16	Dayworkers .....	991	774	736	74.27	95.06
17	Demonstrators .....	4	1			
18	Dining room help .....	343	404	323	94.17	79.95
19	Dishwashers .....	821	870	752	91.60	86.44
20	Domestics .....	551	999	522	91.42	52.25
21	Dressmakers .....	2	2			
22	Factory work .....	770	1,017	663	86.10	65.19
23	Finisher .....	1				
24	Folders, circular .....	4	5	4	100.00	80.00
25	Fruit pickers .....	21	40	21	100.00	52.50
26	General housework .....	2,302	2,947	2,270	98.61	77.08
27	Governess .....	1	1	1	100.00	100.00
28	Hotel work .....	37	58	35	94.59	92.11
29	Housekeepers .....	384	325	263	68.49	80.92
30	Housework .....	1,286	1,807	1,237	96.19	68.46
31	Janitresses .....	19	16	13	68.42	81.25
32	Kitchen help .....	850	861	770	90.59	89.43
33	Labelers .....	13	15	13	100.00	86.67
34	Lady's maid .....	2	1	1	50.00	100.00
35	Laundresses .....	321	354	278	86.60	78.53
36	Matron .....	1				
37	Milliner .....	1				
38	Nurses .....	213	223	173	81.22	77.58
39	Nurse girls .....	37	28	28	75.68	100.00
40	Office work .....	153	56	50	32.26	89.32
41	Pantry work .....	122	122	105	86.07	86.07
42	Pan washers .....	1	2	1	100.00	50.00
43	Presser .....	1	1	1	100.00	100.00
44	Reception service .....	5	1	1	20.00	100.00
45	Saleswoman .....	8	9	3	37.50	33.33
46	Scrubwoman .....	507	521	476	93.88	91.36
47	Seamstresses .....	188	243	151	80.32	64.14
48	Second work .....	234	272	205	87.61	75.37
49	Solicitors .....	14	35	12	85.71	34.29
50	Switch board operators .....	5				
51	Stenographers .....	101	49	43	42.57	87.75
52	Tailoresses .....	2	2	2	100.00	100.00
53	Teacher, not stated .....	1				
54	Waitresses .....	548	721	496	90.51	68.79

Attention is directed to the last two columns of the table; here is shown the completed work of these offices. Out of the total number of applicants for employment 87.37 per cent were placed in positions, while 88.83 per cent of the employers were supplied with the help

sought for. The number of men applying for work as ordinary laborers and railroad laborers, is shown to be 16,242, or 50 per cent of the total number making application for places. Of this number 15,722, or 96.80 per cent, were furnished with positions to work.

In the classification of occupations, it has been the endeavor of the superintendents to diminish the number of classes, and show in a more contracted form the list of applicants, both for employment and for help, but the number increases rather than decreases. However, as in former reports, a selection has been made of the leading occupations of both sexes, as shown in the following table, reducing the number to twenty-eight occupations for males and twenty for females:

TABLE 14—*Summary of the Leading Occupations, Showing Applications for Employment and Help, With Percentages.*

MALES.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
	Grand totals.....	39,468	38,997	34,645	87.78	88.84
	Males .....	27,872	25,959	24,443	87.70	94.16
	Females .....	11,596	13,038	10,202	87.98	78.25
	MALES.....	27,872	25,959	24,443	87.70	94.16
1	Barnmen .....	312	287	282	90.38	98.62
2	Bell boys and other occupations.....	898	849	743	82.74	87.51
3	Blacksmiths .....	81	54	50	61.73	92.59
4	Carpenters.....	349	311	287	82.23	92.28
5	Clerks, all kinds .....	487	193	188	38.60	97.41
6	Cooks .....	464	375	352	75.86	93.87
7	Dishwashers and kitchen work.....	627	587	577	92.03	98.30
8	Drivers.....	158	64	63	39.87	98.44
9	Elevatormen .....	126	70	69	54.76	98.43
10	Engineers .....	142	65	64	45.17	98.46
11	Factory hands.....	1,548	1,170	1,079	69.70	92.22
12	Farm hands.....	1,083	1,085	932	85.27	85.90
13	Firemen .....	203	84	84	41.38	100.00
14	Housemen.....	1,073	989	962	89.66	97.27
15	Janitors.....	405	262	255	62.96	97.33
16	Laborers.....	13,448	13,589	12,917	96.27	95.28
17	Laborers, railroad.....	2,794	3,077	2,775	99.32	90.19
18	Machinists and helpers....	490	159	157	32.04	98.74
19	Packers.....	147	104	100	68.03	96.15
20	Painters.....	109	70	66	60.55	94.29

Table 14—Concluded.

Number.	OCCUPATIONS.	APPLICATIONS FOR—		Number of positions secured.	PERCENTAGES—	
		Employment.	Help.		Securing work.	Securing help.
21	Porters.....	1,081	900	882	81.59	98.00
22	Salesmen.....	69	29	28	40.72	96.55
23	Stockmen.....	321	313	300	93.46	95.85
24	Teamsters.....	419	332	327	78.04	98.49
25	Waiters.....	430	386	373	86.74	96.63
26	Watchmen.....	172	136	95	55.23	69.85
27	Window washers.....	242	250	237	97.93	94.80
28	Yardmen.....	184	169	169	91.85	100.00
	FEMALES.....	11,596	13,038	10,202	87.98	78.25
1	Chambermaids.....	993	1,041	913	91.94	87.70
2	Cooks.....	1,127	1,206	980	86.96	81.26
3	Day work.....	991	774	736	74.27	95.09
4	Diningroom help.....	343	404	323	94.17	79.95
5	Dishwashers.....	821	870	752	91.60	86.44
6	Domestics.....	571	999	522	91.42	52.25
7	Factory work.....	770	1,017	663	86.10	65.19
8	General housework....	2,302	2,947	2,270	98.61	77.03
9	Housekeepers.....	384	325	263	68.49	80.92
10	Kitchen help.....	850	861	770	90.59	89.43
11	Laundresses.....	321	354	278	86.60	78.53
12	Nurses.....	213	223	173	81.22	77.58
13	Nurse girls.....	37	28	28	75.68	100.00
14	Office work, bookkeeping.....	173	61	55	31.79	90.16
15	Pantry work.....	122	122	105	86.07	86.07
16	Scrub women.....	507	521	476	93.88	91.36
17	Seamstresses.....	188	243	151	80.32	64.14
18	Second work.....	234	272	205	87.61	75.37
19	Stenographers.....	101	49	43	42.57	87.75
20	Waitresses.....	548	721	496	90.51	68.79

The twenty-eight occupations of males in this table accounts for 27,872, or 86.9 per cent, of the total number making applications for employment; 25,959, or 84.44 per cent, of employers wanting help; and 24,443, or 88.4 per cent, of those placed in positions. Of the twenty occupations shown for females, the table gives 11,596, or 87.52 per cent, of the total number seeking employment; 13,038, or 85.63 per cent, of employers; and 10,202, or 86.4 per cent, for whom positions were secured.

There is a very slight difference shown in the percentages of the totals as to both sexes.

The classification of all of the occupations is presented under nine different callings for males and seven for females. The number of applications for employment, and for help, also the number of positions secured, with the per cent that each occupation bears to the total number in the class. The table follows:

TABLE 15—*Classified Occupations of Applicants for Employment, Positions Secured and Applications for Help, in the Four Offices, with Percentages in Each Class.*

## MALES.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	Males .....	32,073	.....	*27,652	.....	29,351	.....
	AGRICULTURAL .....	1,738	100.00	1,511	100.00	1,707	100.00
1	Corn huskers .....	12	.69	12	.79	16	.94
2	Dairymen .....	22	1.26	21	1.39	21	1.23
3	Farmers .....	181	10.41	161	10.66	187	10.95
4	Farm hands .....	1,083	62.89	982	61.68	1,085	63.56
5	Florists .....	49	2.82	40	2.65	40	2.34
6	Gardeners .....	30	1.73	15	.99	15	.88
7	Harvest hands .....	30	1.73	30	1.99	30	1.76
8	Stockmen .....	3.21	18.47	300	19.85	313	18.34
	CLERICAL .....	651	100.00	290	100.00	296	100.00
1	Bookkeepers .....	40	6.14	12	4.14	13	4.39
2	Clerks, drug .....	8	1.23	8	2.76	8	2.70
3	Clerks, dry goods .....	1	.15	1	.34	1	.34
4	Clerks, grocery .....	18	2.77	9	3.10	9	3.03
5	Clerks, general .....	418	64.21	136	46.90	141	47.65
6	Clerks, hotel .....	4	.61	4	1.38	4	1.35
7	Clerks, office .....	27	4.15	21	7.24	21	7.10
8	Clerks, shipping .....	11	1.69	9	3.10	9	3.03
9	Copyists .....	1	.15				
10	Stenographers .....	13	2.00	4	1.38	4	1.35
11	Stockkeepers .....	103	15.82	86	29.66	86	29.06
12	Timekeepers .....	7	1.08				
	COMMERCIAL .....	647	100.00	500	100.00	628	100.00
1	Agents .....	45	6.96	39	7.80	39	6.21
2	Boys, cash .....	21	3.25	20	4.00	23	3.66
3	Boys, delivery .....	134	20.71	126	25.20	135	21.50
4	Boys, office .....	63	9.74	59	11.80	72	11.46
5	Canvassers .....	130	20.09	104	20.80	132	21.02
6	Cashiers .....	3	.46	3	.60	3	.48
7	Checkers .....	7	1.08	3	.60	3	.48
8	Collectors .....	55	8.50	28	5.60	30	4.78
9	Distributors .....	14	2.16	14	2.80	21	3.34
10	Draughtsmen .....	1	.15				
11	Salesmen .....	69	10.67	28	5.60	29	4.62
12	Solicitors .....	90	13.91	76	15.20	141	22.45
13	Wholesalers .....	15	2.32				

\* Including 207 positions secured from applications filed the previous year.



Table 15—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	<b>DOMESTIC SERVICE .....</b>	<b>3,738</b>	<b>100.00</b>	<b>3,206</b>	<b>100.00</b>	<b>3,299</b>	<b>100.00</b>
1	Butlers .....	10	.27	9	.28	10	.30
2	Carpet layers .....	20	.54	19	.59	19	.58
3	Cooks .....	464	12.41	352	10.96	375	11.37
4	Dishwashers .....	416	11.13	394	12.29	399	12.09
5	Housemen .....	1,073	28.71	962	30.01	989	29.98
6	Kitchenmen .....	211	5.64	183	5.71	188	5.70
7	Pantrymen .....	3	.08	2	.06	2	.06
8	Panwashers .....	30	.80	30	.94	31	.94
9	Porters .....	1,081	28.92	882	27.51	900	27.28
10	Waiters .....	430	11.50	373	11.63	386	11.70
	<b>MANUAL LABOR .....</b>	<b>16,243</b>	<b>100.00</b>	<b>15,722</b>	<b>100.00</b>	<b>16,666</b>	<b>100.00</b>
1	Coal heavers .....	1	.01				
2	Laborers .....	13,448	82.79	12,947	82.35	13,589	81.54
3	Laborers, railroad .....	2,794	17.20	2,775	17.65	3,077	18.46
	<b>PROFESSIONAL .....</b>	<b>13</b>	<b>100.00</b>	<b>8</b>	<b>100.00</b>	<b>9</b>	<b>100.00</b>
1	Architect .....	1	7.69	1	12.50	1	11.11
2	Artists .....	3	23.08	1	12.50	1	11.11
3	Druggist .....	1	7.69				
4	Nurses .....	8	61.54	6	75.00	7	77.78
	<b>TRADES .....</b>	<b>2,683</b>	<b>100.00</b>	<b>1,489</b>	<b>100.00</b>	<b>1,760</b>	<b>100.00</b>
1	Auctioneer .....	1	.04				
2	Bakers .....	70	2.61	47	3.16	47	2.67
3	Barbers .....	11	.41	9	.61	12	.68
4	Bartenders .....	51	1.90	28	1.88	30	1.71
5	Bench hands .....	40	1.49	7	.47	7	.40
6	Blacksmiths .....	81	3.02	50	3.36	54	3.07
7	Boilermakers .....	8	.30	4	.27	4	.23
8	Bookbinders .....	3	.11	1	.07	1	.06
9	Boxmakers .....	44	1.64	37	2.49	37	2.10
10	Brass finishers .....	14	.52	1	.07	1	.06
11	Bricklayers .....	10	.37	8	.54	13	.74
12	Butchers .....	28	1.04	14	.94	15	.85
13	Cabinet makers .....	82	3.06	54	3.62	74	4.20
14	Calclminers .....	27	1.01	25	1.68	25	1.42
15	Canmaker .....	1	.04				
16	Candy maker .....	1	.04				
17	Carpenters .....	349	13.01	287	19.27	311	17.67
18	Civil engineer .....	1	.04				
19	Cigar makers .....	2	.07	1	.07	1	.06
20	Coal miners .....	16	.60	16	1.08	23	1.31
21	Compositors .....	2	.07	2	.13	2	.11
22	Cooper .....	1	.04				
23	Core makers .....	10	.37	2	.13	3	.17
24	Deck hands .....	137	5.11	132	8.87	152	8.64
25	Die setter .....	1	.04				
26	Drill pressmen .....	64	2.39	23	1.54	23	1.31
27	Electricians .....	41	1.53	12	.81	14	.80
28	Engineers .....	142	5.26	64	4.30	65	3.69
29	Firemen .....	203	7.57	84	5.64	84	4.77
30	Harness makers .....	5	.18	3	.20	3	.17
31	Horseshoe .....	1	.04	1	.07	1	.06
32	Iron workers .....	14	.52	2	.13	2	.11
33	Lathe hands .....	19	.71	6	.40	6	.34
34	Lathers .....	5	.18				
35	Laundrymen .....	28	1.04	25	1.68	26	1.47
36	Locksmiths .....	4	.15				
37	Machine hands .....	144	5.37	28	1.88	28	1.59
38	Machinists .....	346	12.90	129	8.66	131	7.44

Table 15—Continued.

N <sup>umer</sup> .	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
39	Meat Cutters and slaughterers	4	.15	3	.20	3	.17
40	Metal workers	11	.41	5	.34	5	.28
41	Miller	1	.04				
42	Millwrights	20	.75	13	.87	17	.97
43	Miners	13	.48	11	.74	98	5.28
44	Molders	96	3.58	58	3.90	115	6.54
45	Packers	147	5.48	100	6.72	104	5.91
46	Painters	109	4.06	66	4.43	70	3.98
47	Paper hangers	12	.45	9	.61	12	.68
48	Pattern makers	3	.11	2	.13	3	.17
49	Photographer	1	.04				
50	Piano finisher	1	.04				
51	Piano tuner	1	.04				
52	Plasterers	3	.11	3	.20	3	.17
53	Plumbers	6	.22				
54	Polishers, metal	4	.15				
55	Polishers, not stated	16	.60	2	.13	2	.11
56	Pressers	13	.48	7	.47	9	.51
57	Press feeders	4	.15	2	.13	2	.11
58	Printers	12	.45	2	.13	5	.28
59	Punch press hands	25	.93	3	.20	3	.17
60	Roofer	1	.04	1	.07	1	.06
61	Sawyers	8	.30	6	.40	6	.34
62	Shoemakers	6	.22	2	.13	3	.17
63	Steamfitters	24	.90	12	.81	12	.68
64	Surveyor	1	.04				
65	Tailors	14	.52	10	.67	14	.80
66	Tinsmiths	48	1.79	27	1.81	36	2.05
67	Toolmakers	16	.60	4	.27	4	.23
68	Trunkmakers	1	.04				
69	Undertaker	1	.04	1	.07	1	.06
70	Upholsterers	17	.63	11	.74	15	.85
71	Wagon makers	7	.26	6	.40	6	.34
72	Watchmakers	2	.07	2	.13	2	.11
73	Woodworkers	28	1.04	19	1.28	19	1.08
	TRANSPORTATION.	1,576	100.00	1,248	100.00	1,260	100.00
1	Baggagemen	2	.13	2	.16	2	.16
2	Barnmen	312	19.80	282	22.60	287	22.78
3	Brakemen	4	.25				
4	Coachmen	70	4.44	50	4.01	50	3.97
5	Conductors	2	.13				
6	Drivers	158	10.02	63	5.05	64	5.08
7	Elevatormen	126	7.99	69	5.53	70	5.56
8	Hostlers	39	2.47	35	2.80	35	2.77
9	Railroad men	3	.19				
10	Sailors	2	.13	2	.16	2	.16
11	Teamsters	419	26.59	327	26.20	332	26.35
12	Truckmen	439	27.86	418	33.49	418	33.17
	MISCELLANEOUS.	4,784	100.00	3,471	100.00	3,726	100.00
1	Apprentices	53	1.12	13	.37	13	.35
2	Blacksmith helpers	24	.50	6	.17	6	.16
3	Bootblacks	4	.08	3	.09	3	.08
4	Bottlers	1	.02				
5	Boys	530	11.08	392	11.29	441	11.84
6	Boys, bell	54	1.13	52	1.50	62	1.67
7	Boys, elevator	6	.13	6	.17	6	.16
8	Boys, errand	78	1.63	76	2.19	98	2.63
9	Boys, factory	12	.25	12	.35	12	.32
10	Brickyard men	39	.81	39	1.13	39	1.05
11	Brushmaker	1	.02				

Table 15—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	MISCELLANEOUS— <i>Concluded.</i>						
12	Carge and wagon washers.	62	1.30	53	1.53	54	1.45
13	Cleaners, hat	1	.02	1	.03	1	.02
14	Circular distributors	36	.75	35	1.01	35	.94
15	Cleaners, wagon	3	.06	2	.06	2	.05
16	Factory hands	1,548	32.36	1,079	31.09	1,170	31.40
17	Finishers	8	.17	5	.14	8	.22
18	Foremen	2	.04				
19	Foundrymen	7	.15				
20	Furnace tenders	2	.04	2	.06		
21	Guards	5	.10			2	.05
22	Handymen	165	3.45	163	4.70	167	4.48
23	Hotel work	51	1.07	49	1.41	50	1.34
24	Ice cream maker	1	.02	1	.03	1	.02
25	Interpreter	1	.02	1	.03	1	.02
26	Janitors	405	8.47	255	7.34	262	7.08
27	Messengers	2	.04	2	.06	2	.05
28	Milkmen	7	.15	7	.20	7	.19
29	Mill hands	2	.04	1	.03	1	.02
30	Models	2	.04	2	.06	3	.08
31	Molder helpers	77	1.62	75	2.16	73	2.02
32	Motor men	8	.16	8	.23	8	.22
33	Office help	63	1.32	47	1.35	47	1.26
34	Oilers	14	.29	2	.06	2	.05
35	Orderlies	4	.08	4	.11	4	.11
36	Pumpman	1	.02	1	.03	1	.02
37	Stovem en	5	.10	4	.11	4	.11
38	Vise hand	1	.02				
39	Watchmen	172	3.60	95	2.74	136	3.65
40	Whitewasher	1	.02	1	.03	1	.02
41	Window dresser	1	.02				
42	Window washers	142	5.06	237	6.83	250	6.71
43	Wood finishers	4	.08	4	.11	4	.11
44	Yardmen	184	3.84	169	4.87	169	4.55
45	Not classified	895	18.71	567	16.33	574	15.41

## FEMALES.

FEMALES		13,250		*11,946		15,226	
CLERICAL		274	100.00	98	100.00	110	100.00
1	Bookkeepers	18	6.57	5	5.10	5	4.54
2	Office work	155	56.57	50	51.02	56	50.91
3	Stenographers	101	36.86	43	43.88	49	44.55
COMMERCIAL		222	100.00	155	100.00	225	100.00
1	Addressers	26	11.71	17	10.97	18	8.00
2	Bottle labelers	27	12.16	26	19.77	29	12.89
3	Canvassers	16	7.21	14	9.03	41	18.22
4	Cashiers	29	13.06	11	7.10	12	5.33
5	Clerks	91	40.99	65	41.94	73	32.45
6	Collectors	7	3.15	7	4.51	7	3.11
7	Demonstrators	4	1.80			1	.44
8	Saleswomen	8	3.61	3	1.94	9	4.00
9	Solicitors	14	6.31	12	7.74	35	15.56

\* Including 241 positions secured from applications filed the previous year.

Table 15—Concluded. -

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
		Number.	Percent-ages of each class.	Number.	Percent-ages of each class.	Number.	Percent-ages of each class.
	<b>DOMESTIC SERVICE.....</b>	<b>11,480</b>	<b>100.00</b>	<b>10,381</b>	<b>100.00</b>	<b>13,293</b>	<b>100.00</b>
1	Chambermaids.....	993	8.65	913	8.79	1,041	7.83
2	Cooks.....	1,127	9.82	980	9.43	1,206	9.07
3	Dayworkers.....	991	8.63	786	7.68	774	5.82
4	Diningroom help.....	343	2.99	323	3.11	404	3.04
5	Dishwashers.....	821	7.15	752	7.24	870	6.54
6	Domestics.....	551	4.81	522	5.02	888	6.63
7	General housework.....	2,392	20.85	2,270	21.85	2,947	22.17
8	Hotel work.....	37	.32	35	.34	38	.29
9	Housekeepers.....	384	3.35	293	2.85	325	2.45
10	Housework.....	1,286	11.20	1,237	11.90	1,801	13.59
11	Kitchen help.....	850	7.40	770	7.41	891	6.68
12	Laundresses.....	321	2.81	278	2.68	354	2.66
13	Nursegirls.....	37	.32	28	.27	28	.20
14	Pantry work.....	122	1.06	105	1.01	122	.92
15	Pan washer.....	1	.01	1	.01	2	.02
16	Reception service.....	5	.04	1	.01	1	.01
17	Scrub women.....	507	4.42	476	4.58	521	3.92
18	Second work.....	234	2.04	205	1.97	272	2.05
19	Waitresses.....	548	4.77	496	4.77	721	5.42
	<b>PERSONAL SERVICE.....</b>	<b>10</b>	<b>100.00</b>	<b>3</b>	<b>100.00</b>	<b>4</b>	<b>100.00</b>
1	Companions.....	7	70.00	2	66.67	3	75.00
2	Lady's maid.....	2	20.00	1	33.33	1	25.00
3	Matron.....	1	10.00				
	<b>PROFESSIONAL.....</b>	<b>215</b>	<b>100.00</b>	<b>174</b>	<b>100.00</b>	<b>224</b>	<b>100.00</b>
1	Governess.....	1	.46	1	.57	1	.45
2	Nurses.....	213	99.07	173	99.43	223	99.55
3	Teacher.....	1	.47				
	<b>TRADES.....</b>	<b>194</b>	<b>100.00</b>	<b>153</b>	<b>100.00</b>	<b>250</b>	<b>100.00</b>
1	Bookbinder.....	1	.52			3	1.20
2	Dressmaker.....	2	1.03			2	.80
3	Milliner.....	1	.52				
4	Seamstresses.....	183	96.90	151	98.69	243	97.20
5	Tailoresses.....	2	1.03	2	1.31	2	.80
	<b>MISCELLANEOUS.....</b>	<b>855</b>	<b>100.00</b>	<b>731</b>	<b>100.00</b>	<b>1,120</b>	<b>100.00</b>
1	Agent.....	1	.12			8	.71
2	Apprentice.....	1	.12				
3	Bottle washers.....	17	1.99	16	2.19	18	1.61
4	Copyists.....	2	.23				
5	Factory work.....	770	90.06	663	90.70	1,017	90.80
6	Finisher.....	1	.12				
7	Folders, circular.....	4	.46	4	.55	5	.45
8	Fruit pickers.....	21	2.46	21	2.87	40	3.57
9	Janitresses.....	19	2.22	13	1.78	16	1.43
10	Labelers.....	13	1.52	13	1.78	15	1.34
11	Presser.....	1	.12	1	.13	1	.09
12	Switch board operators.....	5	.58				

The foregoing table is recapitulated as follows:

TABLE 16—*Classified Occupations (Males and Females) with Percentages.*

Number.	SEX AND CLASSIFICATION OF OCCUPATIONS.	Number of occupations in each class.	APPLICATIONS FOR EMPLOYMENT.		POSITIONS SECURED.		APPLICATIONS FOR HELP.	
			Number.	Percentages.	Number.	Percentages.	Number.	Percentages.
	MALES.....		32,073	100.00	27,652	100.00	29,351	100.00
	Not classified.....				207			
	Total.....				27,445			
1	Agricultural.....	8	1,738	5.42	1,511	5.51	1,707	5.82
2	Clerical.....	12	651	2.03	290	1.06	296	1.01
3	Commercial.....	13	647	2.02	500	1.82	628	2.14
4	Domestic service..	10	3,738	11.65	3,206	11.68	3,299	11.24
5	Manual labor.....	3	16,243	50.64	15,722	57.29	16,666	56.78
6	Professional.....	4	13	.04	8	.03	9	.03
7	Trades.....	73	2,683	8.37	1,489	5.42	1,760	6.00
8	Transportation....	12	1,576	4.91	1,248	4.54	1,260	4.29
9	Miscellaneous.....	45	4,784	14.92	3,471	12.65	3,726	12.69
	FEMALES.....		13,250	100.00	11,946	100.00	15,226	100.00
	Not classified.....				241			
	Total.....				11,705			
1	Clerical.....	3	274	2.07	98	.84	110	.72
2	Commercial.....	9	222	1.68	155	1.32	225	1.48
3	Domestic service..	19	11,480	86.64	10,391	88.77	13,293	87.30
4	Personal service..	3	10	.08	3	.03	4	.03
5	Professional.....	3	215	1.62	174	1.49	224	1.47
6	Trades.....	5	194	1.46	153	1.31	250	1.64
7	Miscellaneous.....	12	855	6.45	731	6.24	1,120	7.36

It will be seen that of the male applicants 16,243, or 50.64 per cent were registered for manual labor. The increase for positions in this class is nearly 6,000, or 55 per cent over last year. The total number of male applicants for employment shown in the classified list was 32,073; omitting the number included as miscellaneous, we have 27,289 in the eight classes, of this number 23,974, or 87.85 per cent were secured places.

Considering the females applying for employment, and omitting the miscellaneous class, it is found that of the 12,395 applicants in the six classes, 10,974, or 88.53 per cent were given positions.

The percentages of positions secured, in each class, of the number applying for employment, and the number applying for help, for both males and females, are shown in the following table, computed from the foregoing table:

TABLE 17—*Percentages of Positions Secured to Employee and Employer.*

OCCUPATIONS.	MALES.		FEMALES.	
	PERCENTAGES—POSITIONS SECURED FOR—		PERCENTAGES—POSITIONS SECURED FOR—	
	Employee.	Employer.	Employee.	Employer.
Agricultural .....	86.94	88.52		
Clerical .....	44.55	97.97	35.77	89.09
Commercial .....	77.28	79.62	69.82	68.88
Domestic service .....	85.77	97.18	90.51	78.17
Manual labor .....	96.79	94.34		
Personal service .....			30.00	75.00
Professional .....	61.54	88.88	80.93	77.68
Trades .....	55.50	84.60	78.87	61.20
Transportation .....	79.19	99.05		
Total .....	87.85	93.56	88.53	77.80

Referring to the proportion of positions secured for both sexes in all of the occupations a very slight difference will be noticed. For males the range is from 44.55 per cent in clerical service to 96.79 per cent in manual labor; for females, from 30 per cent in personal service to 90.51 per cent in domestic service. As to the employers of labor it is shown that 93.56 per cent applying for male workmen were supplied, the range being 79.62 per cent in commercial service to 99.05 per cent in transportation employments. In securing the services of females the proportions are notably less, the range being from 61.20 per cent in trade occupations to 89.09 per cent in clerical work, and 77.80 per cent for all classes of occupations.

## AGE PERIODS OF APPLICANTS.

In the table following is presented the age periods for applicants seeking employment at the four offices. These are arranged by the different classifications of occupations and for both sexes:

TABLE 18—*Age Periods of Applicants, by Classified Occupations.*

## MALES.

Number.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over	Not re- ported.
	Males—32,073 .....	3,758	13,383	9,839	3,908	734	99	352
	North Side Office.....	327	2,055	1,041	538	214	33	49
	South Side Office.....	1,465	3,537	2,882	1,125	124	9	
	West Side Office.....	1,505	5,408	4,277	1,566	229	41	303
	Peoria Office.....	461	2,383	1,639	679	167	16	
	AGRICULTURAL.....	185	788	461	254	43	3	4
1	Corn husker.....	1	6	4	1			
2	Dairymen.....	1	10	9	1	1		
3	Farmers.....	18	77	55	23	6		2
4	Farm hands.....	145	556	245	128	19		
5	Florists.....		14	13	10	12		
6	Gardeners.....	1	17	7	2	1		2
7	Harvest hands.....	2	19	6	3			
8	Stockmen.....	17	89	122	86	4	3	
	CLERICAL.....	119	350	109	43	24	2	4
1	Bookkeepers.....	3	23	8	4	2		
2	Clerks, drug.....		6	1	1			
3	Clerks, dry goods.....		1					
4	Clerks, grocery.....	3	14	1				
5	Clerks, general.....	94	219	61	23	18	1	2
6	Clerks, hotel.....		1	2	1			
7	Clerks, office.....	3	16	5	3			
8	Clerks, shipping.....	1	7	2	1			
9	Copyist.....		1					
10	Stenographers.....	6	6	1				
11	Stockkeepers.....	8	52	26	10	4	1	2
12	Timekeepers.....	1	4	2				
	COMMERCIAL.....	247	207	113	59	10	8	3
1	Agents.....	6	25	9	5			
2	Boys, cash.....	21						
3	Boys, delivery.....	134						
4	Boys, office.....	63						
5	Canvassers.....	9	54	37	17	5	6	2
6	Cashiers.....	1	1	1				
7	Checkers.....		6		1			
8	Collectors.....	7	30	11	6	1		
9	Distributors.....	1	5	3	3	2		
10	Drughtsmen.....		1					
11	Salesmen.....	1	26	26	12	2	2	
12	Solicitors.....	2	50	22	15			1
13	Wholesale men.....	2	9	4				
	DOMESTIC SERVICE.....	460	1,520	979	540	185	26	28
1	Butlers.....		3	4	2	1		
2	Carpet layers.....		10	7	3			
3	Cooks.....	25	227	175	28	6		3
4	Dishwashers.....	73	142	89	87	23	2	
5	Housemen.....	56	360	300	222	75	16	14
6	Kitchenmen.....	49	62	35	54	11		
7	Pantrymen.....	2		1				
8	Panwashers.....	12	14	1	2	1		
9	Porters.....	120	426	311	138	68	8	10
10	Waiters.....	123	246	56	4			1

Table 18—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over	Not re- ported.
	MANUAL LABOR.....	987	6,663	6,081	2,157	223	17	115
1	Coal heaver.....			1				
2	Laborers.....	742	5,299	5,115	1,962	208	17	115
3	Laborers, railroad.....	245	1,364	965	195	15		
	PROFESSIONAL.....		2	7	3	1		
1	Architect.....			1				
2	Artists.....		1	1	1			
3	Druggist.....		1					
4	Nurses.....			5	2	1		
	TRADES.....	251	1,184	788	351	67	16	26
1	Auctioneer.....					1		
2	Bakers.....	6	24	26	13	1		
3	Barbers.....		6	3	1	1		
4	Bartenders.....	4	30	8	8			1
5	Bench hands.....	7	20	7	6			
6	Blacksmiths.....	1	25	23	23	5	2	2
7	Boilermakers.....		6	1	1			
8	Bookbinders.....	1	2					
9	Box makers.....	8	23	11	1			1
10	Brass finishers.....	3	4	5	1	1		
11	Bricklayers.....		5	2	3			
12	Butchers.....		11	6	8	2		1
13	Cabinet maker.....	3	40	24	10	2	1	2
14	Calclminers.....	4	16	4	2	1		
15	Can maker.....			1				
16	Candy maker.....							
17	Carpenters.....	5	104	138	77	20	3	2
18	Civil engineer.....			1				
19	Cigar makers.....		2					
20	Coal miners.....		4	9	2	1		
21	Compositors.....		2					
22	Cooper.....		1					
23	Core makers.....	5	1	1				
24	Deck hands.....	5	75	36	13	5		3
25	Die setter.....		1					
26	Drill press hands.....	26	33	4	1			
27	Electricians.....	3	25	8	5			
28	Engineers.....	1	48	55	31		2	
29	Firemen.....	15	104	62	20	5		
30	Harness makers.....		2	2	1	2		
31	Horseshoer.....		1					
32	Iron workers.....		7	5	2			
33	Lathe hands.....	2	6	8	2	1		
34	Lathers.....		4		1			
35	Laundrymen.....	3	13	8	2			2
36	Locksmiths.....	3	1					
37	Machine hands.....	63	67	13	1			
38	Machinists.....	52	191	77	21	2		3
39	Meat cutters and slaughterers.....			3	1			
40	Metal workers.....	4	3	2	2			
41	Miller.....		1					
42	Millwrights.....		9	9	2			
43	Miners.....		7	5	1			
44	Molders.....		63	26	6			1
45	Packers.....		29	71	35	8		4
46	Painters.....	6	51	43	9			
47	Paper hangers.....		8	4				
48	Pattern makers.....		1	1	1			
49	Photographers.....							1
50	Piano finisher.....			1				
51	Piano tuner.....			1				
52	Plasterers.....			2	1			
53	Plumbers.....		4	2				
54	Polishers, metal.....		2	2				
55	Polishers, not stated.....		11	5				
56	Pressers.....	2	7	3	1			
57	Press feeders.....	1	3					
58	Printers.....		5	6	1			



Table 18—Continued.

No.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	<b>TRADES—Concluded.</b>							
59	Punch press hands.....	16	6	2	1			
60	Roofer.....		5	1				
61	Sawyers.....				1	1		1
62	Shoemakers.....	2		2	2			
63	Steamfitters.....		9	7	4	2	1	1
64	Surveyor.....		1					
65	Tailors.....		7	2	5			
66	Tinsmiths.....		25	14	5		4	
67	Tool makers.....		8	8				
68	Trunk maker.....			1				
69	Undertaker.....		1					
70	Upholsters.....		8	6	3			
71	Wagon maker.....		2	3	1			1
72	Watch makers.....		2					
73	Wood workers.....		2	6	11	6	3	
	<b>TRANSPORTATION.....</b>	<b>172</b>	<b>755</b>	<b>414</b>	<b>157</b>	<b>39</b>	<b>11</b>	<b>28</b>
1	Baggagemen.....			1	1			
2	Barnmen.....	11	105	99	70	15	11	1
3	Brakemen.....		4					
4	Coachmen.....		33	26	9	2		
5	Conductors.....		2					
6	Drivers.....	37	95	16	4	6		
7	Elevatormen.....	35	45	29	13	4		
8	Hostlers.....	3	21	10	4			1
9	Railroad men.....		3					
10	Sailors.....				2			
11	Teamsters.....	40	241	84	43	11		
12	Truckmen.....	46	206	149	11	1		26
	<b>MISCELLANEOUS.....</b>	<b>1,337</b>	<b>1,914</b>	<b>887</b>	<b>344</b>	<b>142</b>	<b>16</b>	<b>144</b>
1	Apprentices.....	44	9					
2	Blacksmith helpers.....	3	8		2		2	
3	Bootblacks.....	4		9				
4	Bottler.....	1						
5	Boys.....	432	76					2
6	Boys, bell.....	54						
7	Boys, elevator.....	6						
8	Boys, errand.....	78						
9	Boys, factory.....	12						
10	Brickyard men.....		8	22	6	3		
11	Brushmaker.....		1					
12	Carriage and wagon washers.....	1	29	18	12	2		
13	Cleaners, hat.....		1					
14	Circular distributors.....	2	17	9	5	2		1
15	Cleaners, wagon.....		2	1				
16	Factory hands.....	525	733	216	57	8	1	8
17	Finishers.....	1	2	3	2			
18	Foremen.....			1	1			
19	Foundry men.....	4		1				
20	Furnace tenders.....							
21	Guards.....			2	1			
22	Handymen.....	12	54	51	19	23	2	4
23	Hotel work.....	8	36	12	4	1		
24	Ice cream maker.....	1						
25	Interpreter.....			1				
26	Janitors.....	7	133	162	68	29	2	4
27	Messengers.....							
28	Milkmen.....		5	2				
29	Mill hands.....		1	1				
30	Models.....							
31	Molder helpers.....		51	21	4			1
32	Motormen.....		5	3				
33	Office help.....	14	32	11	3	3		
34	Oilers.....		12	2				
35	Orderlies.....		3	1				
36	Pumpmen.....		1					
37	Storemen.....		1	4				
38	Vise hand.....			1				

Table 18—Continued.

No.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	<b>MISCELLANEOUS—Concluded.</b>							
39	Watchmen.....		34	40	52	37	6	3
40	Whitewasher.....			1				
41	Window dresser.....			1				
42	Window washer.....	17	94	86	36	9		
43	Wood finishers.....		2	2				
44	Yardmen.....	4	56	90	24	8	2	
45	Not classified.....	88	507	113	48	17	1	121
	<b>Females—13,250.....</b>	<b>2,439</b>	<b>4,650</b>	<b>3,420</b>	<b>1,532</b>	<b>432</b>	<b>79</b>	<b>698</b>
	North Side Office.....	612	1,220	721	481	190	39	611
	South Side Office.....	735	1,587	1,334	484	110	4	6
	West Side Office.....	591	917	766	381	46	2	81
	Peoria Office.....	501	926	599	186	86	34	
	<b>CLERICAL.....</b>	<b>96</b>	<b>96</b>	<b>56</b>	<b>20</b>	<b>5</b>		<b>1</b>
1	Bookkeepers.....	4	9	2	1	1		1
2	Office work.....	30	57	48	17	3		
3	Stenographers.....	62	30	6	2	1		
	<b>COMMERCIAL.....</b>	<b>69</b>	<b>93</b>	<b>33</b>	<b>14</b>	<b>6</b>		<b>7</b>
1	Addressers.....	4	13	6	3			
2	Bottle labelers.....	13	14					
3	Canvassers.....	1	4	2	4	4		1
4	Cashiers.....	9	13	5	1	1		
5	Clerks.....	32	35	14	3	1		6
6	Collectors.....	1	3	1	2			
7	Demonstrators.....		3	1				
8	Saleswomen.....	5	2	1				
9	Solicitors.....	4	6	3	1			
	<b>DOMESTIC SERVICE.....</b>	<b>1,565</b>	<b>4,111</b>	<b>3,209</b>	<b>1,452</b>	<b>405</b>	<b>78</b>	<b>680</b>
1	Chambermaids.....	190	499	163	78	11		52
2	Cooks.....	25	287	433	223	49	15	95
3	Dayworkers.....	15	184	400	209	55	8	120
4	Dining room help.....	108	183	39	5	1		7
5	Dishwashers.....	71	217	286	138	49	6	54
6	Domestics.....	92	298	76	74	14	1	16
7	General house work.....	505	958	437	128	61	12	201
8	Hotel work.....	3	17	6	7	3	1	
9	Housekeepers.....		62	172	110	23	8	9
10	House work.....	198	380	403	210	88	3	4
11	Kitchen help.....	49	275	308	139	28	21	30
12	Laundresses.....	7	103	136	50	5		20
13	Nurse girls.....		30	7				
14	Pantry work.....	14	62	35	8	1	2	
15	Panwasher.....			1				
16	Reception service.....	3	2					
17	Scrubwoman.....	3	133	250	65	16	1	39
18	Second work.....	80	120	22	5	1		6
19	Waitresses.....	202	301	35	3			7
	<b>PERSONAL SERVICE.....</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>3</b>			
1	Companions.....	1	1	4	1			
2	Lady's maid.....		1		1			
3	Matron.....				1			

Table 18—Concluded.

No.	CLASSIFICATION OF OCCUPATIONS.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re- ported.
	PROFESSIONAL.....	98	58	33	12	7	.....	12
1	Governess.....			1				
2	Nurses.....	93	57	32	12	7		12
3	Teacher.....		1					
	TRADES.....	23	95	37	19	6	1	13
1	Bookbinder.....	1						
2	Dressmaker.....		2					
3	Milliner.....	1						
4	Seamstresses.....	21	92	36	19	6	1	13
5	Tailoresses.....		1	1				
	MISCELLANEOUS.....	592	195	48	12	3	.....	5
1	Agent.....			1				
2	Apprentice.....	1						
3	Bottle washers.....	1	5	8	3			
4	Copyists.....			1	1			
5	Factory work.....	564	163	31	7	2		3
6	Finisher.....			1				
7	Folders, circulars.....	4						
8	Fruit pickers.....	9	12					
9	Janitresses.....	1	8	6	1	1		2
10	Labelers.....	10	3					
11	Presser.....		1					
12	Switchboard operators.....	2	3					

Observing the first line in the table it is shown that, of the total number, 352 have no report of their age; deducting this number from the total, we have 31,721 persons enumerated under the different age periods, of whom 11.85 per cent were under 20 years of age; 42.19 per cent, 20 but under 30 years; 31.02 per cent, 30 but under 40 years; 12.32 per cent, 40 but under 50 years; 2.31 per cent, 50 but under 60 years, and less than one-third of 1 per cent over 60 years.

Referring to the total number of females there were 698 failing to report ages; deducting this number we have a total of 12,552 under the several age periods. Of the total number their ages are shown, as follows: 19.43 per cent under 20 years of age; 37.05 per cent, 20 but under 30 years; 27.25 per cent, 30 but under 40 years; 12.20 per cent, 40 but under 50 years; 3.44 per cent, 50 but under 60 years, and less than two-thirds of 1 per cent 60 years and over.

The only marked difference in the proportion of the sexes, under the several age periods shown, is of those under 20 years of age, the females being about 8 per cent more than the males.

The following table is a summary of the preceding table:

TABLE 19—*Summary of Age Periods of Applicants, by Classified Occupations.*

SEX AND CLASSES OF OCCUPATIONS.	Number of occupations of each class.	Totals.	Under 20 yrs.	20, but under 30 yrs.	30, but under 40 yrs.	40, but under 50 yrs.	50, but under 60 yrs.	60 yrs. and over.	Not re-ported.
MALES .....		32,073	3,758	13,383	9,839	3,908	734	99	352
FEMALES.....		13,250	2,439	4,650	3,420	1,532	432	79	608
Percentages—Males.....			11.72	41.73	30.68	12.17	2.29	.31	1.10
Percentages—Females.....			18.41	35.09	25.81	11.56	3.26	.60	5.27
MALES—									
Agricultural .....	8	1,738	185	788	461	254	43	3	4
Clerical .....	12	651	119	350	109	43	24	2	4
Commercial .....	13	647	247	207	113	59	10	8	3
Domestic service.....	10	3,738	460	1,520	979	540	185	26	28
Manual labor .....	3	16,243	987	6,663	6,081	2,157	223	17	115
Professional .....	4	13		2	7	3	1		
Trades .....	73	2,683	251	1,184	788	351	67	16	26
Transportation .....	12	1,576	172	755	414	157	39	11	28
Miscellaneous.....	45	4,784	1,337	1,914	887	344	142	16	144
FEMALES—									
Clerical .....	3	274	96	96	56	20	5		1
Commercial .....	9	222	69	93	33	14	6		7
Domestic service.....	19	11,480	1,565	4,111	3,209	1,452	405	78	660
Personal service.....	3	10	1	2	4	3			
Professional .....	3	215	93	58	33	12	7		12
Trades .....	5	194	23	95	37	19	6	1	13
Miscellaneous.....	12	855	592	195	48	12	3		5

The four lines at the head of this table gives the totals and percentages of the number in the different age periods.

## CONJUGAL CONDITIONS.

The conjugal relationship of the applicants for positions, both sexes, also the number belonging to trade unions, the average days of lost time, and the number willing to accept work outside of the two cities, are shown in the following table:

TABLE 20.--*Conjugal Conditions, Members of Trade Unions, Days Idle, and Number Willing to Accept Work Out of City.*

Number.	SEX AND CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trade unions.	Average days idle.	Number willing to work out of city.	
		Number mar- ried.	Number single.	Number of de- pendent chil- dren.				
	MALE.....	32,073	7,939	24,134	8,928	1,497	11	16,037
	North Side Office.....	1,145	3,112	1,563	98	5	775	
	South Side Office.....	2,350	6,792	3,117	676	2	5,328	
	West Side Office.....	2,915	10,414	2,512	566	8	7,193	
	Peoria Office.....	1,529	3,816	1,736	157	39	2,741	
	AGRICULTURAL.....	228	1,510	324	1	12	1,523	
1	Corn huskers.....	2	10	2		12	12	
2	Dairymen.....	9	13	14		18	22	
3	Farmers.....	24	157	18		8	170	
4	Farm hands.....	109	984	166		15	1,093	
5	Florists.....	8	41	7	1	11	45	
6	Gardeners.....	8	22	8		11	20	
7	Harvest hands.....	7	23	13		19	30	
8	Stockmen.....	61	280	96		3	131	
	CLERICAL.....	108	545	145	15	13	204	
1	Bookkeepers.....	9	31	15		10	27	
2	Clerks, drug.....	2	6	1		21	2	
3	Clerks, dry goods.....		1		1	4	1	
4	Clerks, grocery.....	3	15	7		14	7	
5	Clerks, general.....	74	344	94	6	16	86	
6	Clerks, hotel.....	1	3	4		29	3	
7	Clerks, office.....	4	23	6	4	8	18	
8	Clerks, shipping.....	1	10	2	3	7	9	
9	Copyist.....		1			5		
10	Stenographers.....	2	11	2		8	4	
11	Stock keepers.....	8	95	13		3	42	
12	Timekeepers.....	2	5	1	1	30	5	
	COMMERCIAL.....	153	494	208	5	14	179	
1	Agents.....	22	23	41		6	29	
2	Boys, cash.....		21			3	2	
3	Boys, delivery.....		134			12	3	
4	Boys, office.....		63			12	4	
5	Canvassers.....	43	87	37	1	10	69	
6	Cashiers.....		3			10	3	
7	Checkers.....	2	5			2		
8	Collectors.....	12	43	14		33	14	
9	Distributors.....	5	9	6				
10	Draughtsmen.....		1			7	1	
11	Salesmen.....	32	37	51	1	32	27	
12	Solicitors.....	31	59	49		10	22	
13	Wholesalers.....	6	9	10	3	4	5	

Table 20—Continued.

Number.	SEX AND CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trade unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of dependent children.			
	DOMESTIC SERVICE.....	744	2,994	683	146	81	1,407
1	Butlers.....	1	9	8		11	6
2	Carpet layers.....	5	15	8		3	4
3	Cooks.....	108	356	129	58	10	226
4	Dishwashers.....	59	357	69		5	237
5	Housemen.....	110	663	100		5	277
6	Kitchenmen.....	26	185	18		5	98
7	Pantry men.....	2	1			13	1
8	Pan washers.....	3	27			8	3
9	Porters.....	301	780	167	9	9	378
10	Waiters.....	129	301	188	79	5	177
	MANUAL LABOR.....	4,250	11,993	4,550	500	11	10,025
1	Coal heaver.....		1			14	
2	Laborers.....	3,763	9,685	4,001	483	12	7,288
3	Laborers, railroad.....	487	2,307	549	17	6	2,737
	PROFESSIONAL.....	4	9	7		5	8
1	Architect.....	1		2		14	1
2	Artists.....	2	1	5		8	2
3	Druggist.....		1			12	
4	Nurses.....	1	7			4	5
	TRADES.....	1,011	1,672	1,518	531	12	975
1	Auctioneer.....	1		2		30	1
2	Bakers.....	26	44	41	11	16	38
3	Barbers.....	5	6	3	1	11	5
4	Bartenders.....	11	40	30	7	6	24
5	Bench hands.....	6	34	4		4	10
6	Blacksmiths.....	45	36	92	9	9	21
7	Boilermakers.....	3	5	6	1	8	2
8	Bookbinders.....	1	2	3		9	2
9	Box makers.....	12	32	29	19	8	24
10	Brass finishers.....	5	9	8		4	3
11	Bricklayers.....	6	4	20	5	14	1
12	Butchers.....	11	17	20	2	3	14
13	Cabinet makers.....	40	42	41	13	9	15
14	Calcininers.....	9	18	19	11	1	4
15	Can maker.....		1			8	1
16	Candy maker.....		1			10	1
17	Carpenters.....	187	162	255	158	8	90
18	Civil engineer.....		1			60	1
19	Cigar makers.....		2		1	45	
20	Coal miners.....	12	4	21	14	33	16
21	Compositors.....		2				2
22	Cooper.....	1				7	
23	Coremakers.....	2	8			4	1
24	Deck hands.....	13	124	8		26	125
25	Die setter.....		1			12	1
26	Drillpress men.....	12	52	24	9	11	19
27	Electricians.....	21	20	25	6	12	17
28	Engineers.....	91	51	162	45	6	64
29	Firemen.....	59	144	100	28	13	45
30	Harness makers.....	2	3	1		12	2

Table 20—Continued.

Number.	SEX AND CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number mar- ried.	Number single.	Number of de- pendent chil- dren.			
	<b>TRADES—Concluded.</b>						
31	Horse shoer.....	1		1		90	1
32	Iron workers.....	11	3	17		18	6
33	Lathe hands.....	6	13	6	1	1	4
34	Lathers.....	1	4	5		7	4
35	Laundrymen.....	9	19	7	3	5	10
36	Locksmiths.....	2	2		1	15	2
37	Machine hands.....	26	118	31	14	9	49
38	Machinists.....	137	209	206	69	24	118
39	Meat cutters and slaughterers.....	3	1	9		34	1
40	Metal workers.....	3	8	5		4	2
41	Miller.....	1		2		12	
42	Millwrights.....	10	10	22	4	10	7
43	Miners.....	1	12	4	3	4	13
44	Molders.....	24	72	28	16	10	66
45	Packers.....	30	117	36	6	6	49
46	Painters.....	41	68	51	26	5	13
47	Paper hangers.....	7	5	14	2	3	1
48	Pattern makers.....	3		5		4	1
49	Photographer.....	1		4		90	1
50	Piano finisher.....		1			8	1
51	Piano tuner.....	1				14	1
52	Plasterers.....	1	2	1	1	10	
53	Plumbers.....	2	4	6	1	20	2
54	Polishers, metal.....	2	2	3	2	4	3
55	Polishers, not stated.....	7	9	1	1	8	7
56	Pressers.....	1	12			6	8
57	Press feeders.....		4			35	1
58	Printers.....	5	7	5	4	5	2
59	Punch press hands.....	3	22	1	3	18	7
60	Roofer.....	1				4	1
61	Sawyers.....	2	6	1		31	1
62	Shoemakers.....	2	4	8		26	2
63	Steamfitters.....	14	10	30	7	10	10
64	Surveyor.....	1				7	1
65	Tailors.....	6	8	14	2	2	4
66	Tinsmiths.....	18	30	12	13	12	7
67	Toolmakers.....	8	8	8		11	6
68	Trunkmaker.....		1			7	1
69	Undertaker.....		1				
70	Upholsters.....	11	6	28	3	3	3
71	Wagon makers.....	3	4	4		10	1
72	Watchmaker.....	1	1	4		46	
73	Woodworkers.....	24	4	25	2	29	9
	<b>TRANSPORTATION.....</b>	<b>374</b>	<b>1,202</b>	<b>464</b>	<b>123</b>	<b>11</b>	<b>419</b>
1	Baggagemen.....	2		1		8	2
2	Barrenmen.....	89	223	52	1	8	80
3	Brakemen.....	1	3	1		23	4
4	Coachmen.....	16	54	9		7	27
5	Conductors.....		2			3	
6	Drivers.....	30	128	45	30	10	46
7	Elevatormen.....	22	104	39	14	11	28
8	Hostlers.....	8	31	12		6	18
9	Railroad men.....		3			7	3
10	Sailors.....		2			10	2
11	Teamsters.....	145	274	209	67	21	108
12	Truckmen.....	61	378	96	11	3	101

Table 20—Continued.

Number.	SEX AND CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.	
		Number mar- ried.	Number single.	Number of de- pendent chil- dren.				
	MISCELLANEOUS .....	1,089	3,715	1,029	176	12	1,297	
1	Apprentices .....		53			11	11	
2	Blacksmith helpers .....	12	12			2		
3	Bootblacks .....		4			2	2	
4	Bottlers .....		1			6	6	
5	Boys .....	1	529			7	25	
6	Boys, bell .....		54			18	4	
7	Boys, elevator .....		6			15		
8	Boys, errand .....		73			9	1	
9	Boys, factory .....		12			6		
10	Brickyard men .....	15	24	12		9	32	
11	Brushmaker .....		1			6		
12	Carriage and wagon washers .....	19	43	19		5	20	
13	Cleaner, hat .....		1			6	1	
14	Circular distributors .....	3	33	4	3		4	
15	Cleaners, wagon .....	1	2			8	1	
16	Factory hands .....	315	1,233	375	78	13	557	
17	Finishers .....	2	6	1				
18	Foremen .....	1	1			23	2	
19	Foundrymen .....		7			2	2	
20	Furnace tenders .....		2			30	2	
21	Guards .....	3	2					
22	Handymen .....	26	139	34		7	6	
23	Hotel work .....	12	39			12	14	
24	Ice cream maker .....		1					
25	Interpreter .....		1			18	1	
26	Janitors .....	116	289	147	46	13	26	
27	Messengers .....		2			6	1	
28	Milkmen .....	2	5	3		4		
29	Mill hands .....		2			21	12	
30	Models .....		2			11		
31	Molder helpers .....	14	63	19		4	21	
32	Motormen .....	2	6	3	2	4	5	
33	Office help .....	16	47	22			5	
34	Oilers .....	3	11	4		14	6	
35	Orderlies .....		4			3	4	
36	Pumpman .....	1		2				
37	Stovemmen .....	1	4			14	1	
38	Vise hand .....		1			12		
39	Watchmen .....	80	92	152		18	22	
40	Whitewasher .....		1					
41	Window dresser .....		1			5	1	
42	Window washers .....	41	201	35	19	4	28	
43	Wood finishers .....	2	2	1	2	30	12	
44	Yardmen .....	33	151	27		7	28	
45	Not classified .....	348	547	169	26	18	312	
	FEMALES .....	13,250	5,144	8,106	3,618	96	7	1,953
	North Side Office .....	1,466	2,408	676		9		162
	South Side Office .....	1,159	3,101	1,808	96	3		1,385
	West Side Office .....	1,816	968	936		10		228
	Peoria Office .....	703	1,629	200		10		177
	CLERICAL .....	29	245	19	1	23		42
1	Bookkeeper .....	7	11	5		24		3
2	Office work .....	15	140	11		22		18
3	Stenographers .....	7	94	3	1	25		21
	COMMERCIAL .....	59	163	37	1	26		28
1	Addressers .....	6	20			15		4
2	Bottle labelers .....	2	25			12		
3	Canvassers .....	5	11	7		6		



Table 20—Concluded.

Number.	SEX AND CLASSIFICATION OF OCCUPATIONS.	CONJUGAL CONDITIONS.			Number members of trades unions.	Average days idle.	Number willing to work out of city.
		Number married.	Number single.	Number of de- pendent children.			
<b>COMMERCIAL—Concluded.</b>							
4	Cashiers.....	9	20	6	1	15	5
5	Clerks.....	22	69	11		45	9
6	Collectors.....	5	2	6			
7	Demonstrators.....	2	2			8	3
8	Saleswoman.....	1	7			10	2
9	Solicitors.....	7	7	7		13	5
<b>DOMESTIC SERVICE.....</b>		<b>4,551</b>	<b>6,929</b>	<b>3,453</b>	<b>77</b>	<b>7</b>	<b>1,760</b>
1	Chambermaids.....	301	602	143		15	202
2	Cooks.....	488	639	307		5	281
3	Day workers.....	783	208	703		4	77
4	Dining room help.....	55	288	14		9	38
5	Dishwashers.....	472	349	401		4	158
6	Domestics.....	424	187	57		6	60
7	General house work.....	513	1,789	113		9	69
8	Hotel work.....	12	25	5		6	11
9	Housekeepers.....	188	196	90		10	162
10	Housework.....	191	1,095	243	1	2	340
11	Kitchen help.....	410	440	424		5	92
12	Laundresses.....	184	137	191	4	8	17
13	Nurse girls.....	4	33			5	1
14	Pantry work.....	18	104	19		7	30
15	Panwasher.....		1				
16	Reception service.....		5			9	2
17	Scrub women.....	419	88	672		4	19
18	Second work.....	16	218	3		7	16
19	Waitresses.....	73	475	63	72	4	185
		2	8			3	4
<b>PERSONAL SERVICE.....</b>							
1	Companion.....	1	6			5	3
2	Lady's maid.....	1	1			7	1
3	Matron.....		1				
<b>PROFESSIONAL.....</b>		<b>37</b>	<b>178</b>	<b>26</b>		<b>3</b>	<b>53</b>
1	Governess.....		1				
2	Nurses.....	37	176	26		8	52
3	Teacher.....		1			30	1
<b>TRADES.....</b>		<b>81</b>	<b>113</b>	<b>46</b>	<b>1</b>	<b>3</b>	<b>9</b>
1	Bookbinder.....		1		1	4	
2	Dressmaker.....		2		12	1	
3	Milliner.....		1				
4	Seamstresses.....	80	108	46		3	8
5	Tailoresses.....	1	1			13	
<b>MISCELLANEOUS.....</b>		<b>385</b>	<b>470</b>	<b>37</b>	<b>16</b>	<b>9</b>	<b>57</b>
1	Agent.....	1				7	
2	Apprentice.....		1				
3	Bottle washers.....	12	5	5		21	
4	Copyists.....	2		1		8	
5	Factory work.....	351	419	19	16	9	55
6	Finisher.....	1					
7	Folders, circular.....		4			4	
8	Fruit pickers.....	1	20			9	
9	Janitresses.....	13	6	10		17	2
10	Labelers.....	3	10			7	
11	Presser.....		1				
12	Switch board operators.....	1		2		31	

It will be observed that this table is arranged in the classified form of preceding tables, and is supplemented by a recapitulation as follows:

TABLE 21—*Summary of Conjugal Conditions, Members of Trade Unions, Days Idle and Number Willing to Accept Work Out of the City, with Percentages.*

SEX AND CLASSIFICATION OF OCCUPATIONS.	OCCUPATIONS.		CONJUGAL CONDITIONS.				Average number of days idle.	Number willing to work out of city.
	Number of occupations in each class.	Totals.	Number married.	Number single.	Number of dependent children.	Number members of trades unions.		
Males.....	180	32,073	7,939	24,134	8,928	1,497	11	16,037
Females.....	54	13,250	5,144	8,106	3,618	96	7	1,953
Percentage—males.....			24.75	75.25		4.67		50.00
Percentage—females.....			38.82	61.18		.72		14.74
MALES—								
Agricultural.....	8	1,738	228	1,510	324	1	12	1,523
Clerical.....	12	651	106	545	145	15	13	204
Commercial.....	13	647	153	494	208	5	14	179
Domestic service.....	10	3,738	744	2,994	683	146	8	1,407
Manual labor.....	3	16,243	4,250	11,993	4,550	300	11	10,025
Professional.....	4	13	4	9	7		5	8
Trades.....	73	2,683	1,011	1,672	1,518	531	12	975
Transportation.....	12	1,576	374	1,202	464	123	11	419
Miscellaneous.....	45	4,784	1,069	3,715	1,029	176	12	1,297
FEMALES—								
Clerical.....	3	274	29	245	19	1	23	42
Commercial.....	9	222	59	163	37	1	26	28
Domestic service.....	19	11,480	4,551	6,929	3,453	77	7	1,760
Personal service.....	3	10	2	8			3	4
Professional.....	3	215	37	178	26		3	53
Trades.....	5	194	81	113	46	1	3	9
Miscellaneous.....	12	855	385	470	37	16	9	57

The first two lines at the head of the table gives the totals under the different headings, and the next two lines show the percentages. Of the males 24.75 per cent were married, and 75.25 per cent single;

the females show 38.82 per cent married and 61.18 per cent single. The married men report 8,928 dependent children, which signifies slightly over two members to each family; of the females 70 per cent reported having dependent children. Less than 5 per cent of the males and 1 per cent of the females were members of trade unions. The average days of lost time were eleven for males and seven for females. Those of the males signifying a willingness to accept positions outside of the cities, constitute 50 per cent of the total. Of the females 1,953 or only 14.74 per cent agreed to accept work outside of the cities; of this number of females, however, 1,760, or 90 per cent registered for places in domestic service.

#### NATIONALITY

The final presentation is that of the nationality of the applicants for employment, this showing is also under the classified form, and is shown in detail as to occupations in table 22. This is followed by a recapitulation presented in table 23. Referring to this recapitulation it will be seen that of the total number of males 1,786 are grouped as miscellaneous and not reported; this leaves 30,287 answering the question as to nationality.

The classification represents eighteen nationalities, four of these account for 72.68 per cent of the total stated, as follows: American, 38.90 per cent; Germans, 18.11 per cent; Irish, 8.15 per cent; Swedes, 7.52 per cent; leaving 27.32 per cent distributed among the other fourteen classes.

Referring to the females the four nationalities mentioned represent 82.58 per cent of the total number, to-wit: Americans, 39.89 per cent; Irish, 18.09 per cent; Germans, 13.92 per cent; Swedes, 10.68 per cent; leaving 17.42 per cent to the other fourteen nationalities.



TABLE 22—Nationality of all

Number.	CLASSIFICATION OF OCCUPATION.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollander.
<b>MALES</b> .....		11,781	544	838	511	551	798	259	5,485
	North Side Office.....	1,440	4	9	9	39	96	25	1,293
	South Side Office.....	2,424	280	371	355	221	302	162	941
	West Side Office.....	3,829	187	446	106	283	370	66	2,489
	Peoria Office.....	4,068	73	12	41	8	33	6	762
<b>AGRICULTURAL</b> .....		670	14	32	42	18	47	10	348
1	Corn huskers.....	9							2
2	Dairymen.....	14							7
3	Farmers.....	59					8		46
4	Farm hands.....	409	13	27	31	17	30	8	227
5	Florists.....	24		3	6		2	2	3
6	Gardeners.....	5				1	1		10
7	Harvest hands.....	14	1		2				8
8	Stockmen.....	136		2	3		6		45
<b>CLERICAL</b> .....		339	2	9	10	13	33	3	107
1	Bookkeepers.....	24		1		2	1		4
2	Clerks, drug.....	6							2
3	Clerks, dry goods.....	1							
4	Clerks, grocery.....	12		1					5
5	Clerks, general.....	221	2	5	9	10	21	3	66
6	Clerks, hotel.....	3					1		
7	Clerks, office.....	17			1		2		3
8	Clerks, shipping.....	7					1		1
9	Copyist.....	1							
10	Stenographers.....	9					1		
11	Stockkeepers.....	33		2		1	6		26
12	Timekeepers.....	5							
<b>COMMERCIAL</b> .....		478	1		12	6	19	6	61
1	Agents.....	32			1		2	1	4
2	Boys, cash.....	20							1
3	Boys, delivery.....	123				2	1		2
4	Boys, office.....	62							
5	Canvassers.....	82			3	3	8	1	13
6	Cashiers.....	2			1				
7	Checkers.....	4							
8	Collectors.....	43			2	1		2	6
9	Distributors.....	5							
10	Draughtsmen.....	1							
11	Salesmen.....	41	1		1		4		13
12	Solicitors.....	49			4		4	1	13
13	Wholesalers.....	9							3
<b>DOMESTIC SERVICE</b> .....		1,542	44	85	75	56	129	79	625
1	Butlers.....	4					2	2	1
2	Carpet layers.....	11			1		1		2
3	Cooks.....	205	4	4	17	1	22	43	73
4	Dishwashers.....	121	14	17	16	17	9	12	71
5	Housemen.....	319	20	42	20	20	53	17	220
6	Kitchen men.....	50	2	13	4		6	1	35
7	Pantrymen.....								1
8	Pan washers.....	16		1		1	2		4
9	Porters.....	580	4	8	12	15	23		189
10	Waiters.....	256			5	2	11	4	29
<b>MANUAL LABOR</b> .....		4,918	426	531	268	363	311	91	2,628
1	Coal heaver.....								1
2	Laborers.....	4,436	291	419	164	266	240	58	2,278
3	Laborers, railroad.....	482	135	112	104	97	71	33	349



Table 22—

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	PROFESSIONAL.....	6			1		1	1	
1	Architect .....	1							
2	Artists .....	1						1	
3	Druggist .....	1							
4	Nurses .....	3			1		1		
	TRADES .....	1,073	14	65	37	42	82	25	558
1	Auctioneer .....	1							
2	Bakers .....	35	1	2			2	2	19
3	Barbers .....	7							3
4	Bartenders .....	17	1	2			3		14
5	Bench hands .....	11		3			4		13
6	Blacksmiths .....	32	1	2	3	1	3		15
7	Boilermakers .....	3		2					
8	Bookbinders .....	2							
9	Boxmakers .....	21			1		2		6
10	Brass finishers .....	3	1	1		2			3
11	Bricklayers .....	6							1
12	Butchers .....	9		1	1	2			8
13	Cabinet makers .....	10	2	1	5		2		27
14	Calcininers .....	14			2		1		2
15	Can maker .....					1			
16	Candy maker .....								1
17	Carpenters .....	119	1	6	7	6	11	7	55
18	Civil engineer .....	1							
19	Cigar makers .....						1		
20	Coal miners .....	11			1				1
21	Compositors .....					1			
22	Cooper .....	5							1
23	Coremakers .....								
24	Deck hands .....	42			2	9	7		35
25	Die setter .....								
26	Drill press men .....	30			1				17
27	Electricians .....	24					4		5
28	Engineers .....	84		2	3	2	8	2	20
29	Firemen .....	86		4	5	3	6	1	35
30	Harness makers .....	2							3
31	Horseshoer .....								1
32	Iron worker .....	2		2					5
33	Lathe hands .....	9		1			1		6
34	Lathers .....								
35	Laundrymen .....	7					2	1	2
36	Locksmiths .....			1		1			3
37	Machine hands .....	47	2	7		3	2		36
38	Machinists .....	125	1	9	1	3	9	6	86
39	Meat cutters and slaughterers .....	2							1
40	Metal workers .....	6		2					1
41	Miller .....	1							
42	Millwrights .....	14					1		2
43	Miners .....	7				2			
44	Molders .....	50		3			3		17
45	Packers .....	53		5	2	2	1	3	21
46	Painters .....	51		2			2	1	18
47	Paper hangers .....	10					1		
48	Pattern makers .....	3							
49	Photographer .....			1					
50	Piano finisher .....	1							
51	Piano tuner .....								
52	Plasterer .....	2			1				
53	Plumber .....	3					1		
54	Polishers, metal .....	3		1					
55	Polishers, not stated .....	3		2		4			2
56	Pressers .....	9							4
57	Press feeders .....	4							
58	Printers .....	7					1		1
59	Punch-press hands .....	9		1					8
60	Roofer .....								
61	Sawyers .....	4						1	

Continued.

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.	Number.
	1				1			1			1	13	1
	1											3	2
					1			1			1	8	3
164	12	80	89	18	11	41	207	10	19	86	50	2,683	4
		1	2	1			3			1	1	1	2
8		1	1			1	2				1	70	3
1			2				4					51	4
6		2		2		2	8			3	1	40	5
2						1						81	6
		2	1	1			1	1	1			8	7
3						4	5					3	8
												44	9
3												14	10
3		1					2					10	11
5		4		2	1		8			11	4	28	12
1		2					4	1				82	13
												27	14
												1	15
												1	16
24	2	14	6	1	3	10	50	2	6	12	7	349	17
												1	18
1			2								1	2	19
2												16	20
												2	21
			3			1						1	22
16		6				2	14			1	3	10	23
						1						137	24
1			13				2					1	25
2		1					5					64	26
7		3	1				7		2		1	41	27
31		4	6	1		4	13			4		142	28
												202	29
												5	30
1			1				1		2			1	31
1			1									14	32
												19	33
3	2		1		3			2			3	5	34
			1								4	28	35
5			20	1		5	12			2	3	4	36
10	1	14	12	3		6	28	2		20	10	144	37
												346	38
			1								1	4	39
												11	40
												1	41
2				3		1	1					20	42
		3	5	1			7		1	2		13	43
3		6	4	1		1	11	1	6	16		96	44
11	1	8			2	1	10	1	1	6	4	147	45
1												109	46
1												12	47
												3	48
												1	49
												1	50
	1											1	51
												3	52
1										1		6	53
												4	54
			3			1	1					16	55
												13	56
1												4	57
1							2					12	58
1	5										1	25	59
1												1	60
1										2		8	61



Table 22—

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	<b>TRADES—Concluded.</b>								
62	Shoemakers.....	1							2
63	Steamfitters.....	14			1				4
64	Surveyor.....	1							
65	Tailors.....	1	1						9
66	Tinsmiths.....	18	1	2		1	1		20
67	Toolmakers.....	9							4
68	Trunkmaker.....				1				
69	Undertaker.....	1							
70	Upholsters.....	8				1	1		4
71	Wagonmakers.....	1							3
72	Watchmaker.....	1							1
73	Woodworkers.....	11	1						10
	<b>TRANSPORTATION.....</b>	<b>687</b>	<b>11</b>	<b>18</b>	<b>23</b>	<b>14</b>	<b>64</b>	<b>9</b>	<b>290</b>
1	Baggagemen.....	2							
2	Barrenmen.....	132	3	2	6		14	1	67
3	Brakemen.....	2							1
4	Coachmen.....	19	1		5	1	7	1	11
5	Conductors.....	2							
6	Drivers.....	63		4			6		47
7	Elevatormen.....	61	1		3	3	1		13
8	Hostlers.....	15		1	3	2	6		2
9	Railroadmen.....	3							
10	Sailors.....	1					1		
11	Teamsters.....	235	2	1	4		18	3	73
12	Truckmen.....	152	4	10	2	8	11	4	76
	<b>MISCELLANEOUS.....</b>	<b>2,068</b>	<b>32</b>	<b>98</b>	<b>43</b>	<b>39</b>	<b>112</b>	<b>35</b>	<b>868</b>
1	Apprentices.....	17		2			1	2	20
2	Blacksmith helpers.....	6					2		4
3	Bootblacks.....								
4	Bottler.....	1							
5	Boys.....	250		9	2	4	12	2	89
6	Boys, bell.....	50							4
7	Boys, elevator.....	6							
8	Boys, errand.....	73				1		2	
9	Boys, factory.....	12							
10	Brickyard men.....	27	1				1		4
11	Brushmaker.....								
12	Carriage and wagon makers.....	24		1	2	1	3		6
13	Cleaner, hat.....						1		
14	Circular distributors.....	16			1	3	1		7
15	Cleaners, wagon.....	2							1
16	Factory hands.....	755	16	55	23	15	21	18	200
17	Finishers.....	5							2
18	Foremen.....	2							
19	Foundrymen.....	3							
20	Furnace tenders.....								
21	Guards.....	3					1		1
22	Handymen.....	31				3	12	3	72
23	Hotel work.....	46					1		4
24	Ice cream maker.....								1
25	Interpreter.....							1	
26	Janitors.....	116	3	5	4	2	21	1	66
27	Messengers.....	2							
28	Milkmen.....	3							1
29	Mill hands.....	1							1
30	Models.....	2							
31	Molder helpers.....	33	2	2			2		14
32	Motormen.....	5							1
33	Office help.....	47					1		9
34	Oilers.....	6		1					3
35	Orderlies.....	2							1
36	Pumpman.....	1							
37	Stovemmen.....	4							
38	Vise hands.....								1

Continued.

[illegible]

Table 22—

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	<b>MISCELLANEOUS <i>Concluded.</i></b>								
39	Watchmen .....	56		1	3	3	6	2	42
40	Whitewasher .....	1							
41	Window dresser .....								1
42	Window washers .....	72	7	6		1			57
43	Wood finishers .....	4							
44	Yardmen .....	82		3	1				23
45	Not classified .....	302	3	13	7	6	26	4	230

## FEMALES.

	<b>FEMALES</b> .....	5,196	59	241	223	90	352	302	1,814
	North Side Office .....	1,193	6	12	16	21	92	31	416
	South Side Office .....	937	48	147	165	35	181	109	584
	West Side Office .....	1,356	4	71	12	32	37	41	823
	Peoria Office .....	1,710	1	11	30	2	42	21	191
	<b>CLERICAL</b> .....	204			3		9	2	26
1	Bookkeepers .....	13					1		2
2	Office work .....	119			2		5	1	12
3	Stenographers .....	72			1		3	1	12
	<b>COMMERCIAL</b> .....	147		1	5	1	6	1	32
1	Addressers .....	21							5
2	Bottle labelers .....	17							8
3	Canvassers .....	11				1			4
4	Cashiers .....	16					2		2
5	Clerks .....	58		1	4		4		11
6	Collectors .....	4							1
7	Demonstrators .....	4							
8	Saleswomen .....	5						1	
9	Solicitors .....	11							1
	<b>DOMESTIC SERVICE</b> .....	4,140	57	219	201	81	314	178	1,587
1	Chambermaids .....	507		17	41	6	22	12	109
2	Cooks .....	365		25	21	7	65	43	172
3	Dayworkers .....	327		22	8	3	27	8	137
4	Dining room help .....	333		3	3	3	6	6	21
5	Dishwashers .....	244		14	16	3	20	4	143
6	Domestics .....	200		16	4	14	5	7	155
7	General house work .....	1,118	6	6	7	4	31	24	179
8	Hotel work .....	16			1				9
9	Housekeepers .....	137		12	11	5	8	12	36
10	Housework .....	156		12	27	36	13	51	213
11	Kitchen help .....	598		43	12	10	18	4	140
12	Laundresses .....	129		1	5	1	7	1	56
13	Nurse girls .....	33			1		1	3	5
14	Party work .....	33			4	3		3	19
15	Par washer .....								
16	Reception service .....	15					1		2
17	Scrub women .....	315		16	35	7	14	4	103
18	Second work .....	27			1		9	2	39
19	Waitresses .....	250		2	24		26	21	69
	<b>PERSONAL SERVICE</b> .....	6			1		2		1
1	Companion .....	5			1				1
2	Laundry maid .....	1					1		
3	Maid .....							1	



Table 22—

Number.	CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	German and Hollanders.
	<b>PROFESSIONAL.</b>	102	1	4	4	4	4	3	35
1	Governess .....								
2	Nurses .....	101	1	4	4	4	4	1	35
3	Teacher .....	1						2	
	<b>TRADES.</b>	126		2	1		2	4	31
1	Bookbinder .....	1							
2	Dress maker .....	2							
3	Milliner .....	1							
4	Seamstresses .....	120		2	1		2	4	31
5	Tailoresses .....	2							
	<b>MISCELLANEOUS.</b>	471	1	15	8	4	15	14	102
1	Agent .....	1							
2	Apprentice .....								
3	Bottle washers .....	7			2			1	
4	Copyists .....	1							
5	Factory work .....	437	1	15	5	4	14	10	92
6	Finisher .....	1							
7	Folders circular .....	4							
8	Fruit pickers .....	14							1
9	Janitresses .....	4						1	5
10	Labelers .....	1			1				3
11	Presser .....						1	2	
12	Switch board operators .....	1							1



TABLE 23—*Summary of the Nationalities of all*

SEX AND CLASSIFICATION OF OCCUPATIONS.	American.	Austrian.	Bohemian.	Canadian.	Danish.	English.	French.	Germans and Hollanders.
<b>Males</b> .....	11,781	544	838	511	551	798	259	5,485
<b>Females</b> .....	5,196	59	241	223	90	352	202	1,814
<b>Percentages—Males</b> .....	38.90	1.80	2.77	1.69	1.82	2.63	.85	18.11
<b>Percentages—Females</b> .....	39.89	.45	1.85	1.71	.69	2.70	1.55	13.92
<b>MALES—</b>								
Agricultural.....	670	14	32	42	18	47	10	348
Clerical.....	339	2	9	10	13	33	3	107
Commercial.....	478	1	.....	12	6	19	6	61
Domestic service.....	1,542	44	85	75	56	129	79	625
Manual labor.....	4,918	426	531	263	363	311	91	2,628
Professional.....	6	.....	.....	1	.....	1	1	.....
Trades.....	1,073	14	65	37	42	82	25	558
Transportation.....	687	11	18	23	14	64	9	290
Miscellaneous.....	2,068	32	98	43	39	112	35	868
<b>FEMALES—</b>								
Clerical.....	204	.....	.....	3	.....	9	2	26
Commercial.....	147	.....	1	5	1	6	1	32
Domestic service.....	4,140	57	219	201	81	314	178	1,587
Personal service.....	6	.....	.....	1	.....	2	.....	1
Professional.....	102	1	4	4	4	4	3	35
Trades.....	126	.....	2	1	.....	2	4	31
Miscellaneous.....	471	1	15	8	4	15	14	102

The annual reports of the superintendents of the four offices follow:

*Applicants for Employment, by Classified Occupations.*

Irish.	Italian.	Norwegian.	Polish.	Russian.	Scandinavian.	Scotch.	Swede.	Swiss.	Welsh.	Miscellaneous.	Not reported.	Totals.
2,468	613	1,192	1,196	553	422	370	2,278	269	159	848	938	32,073
2,356	65	259	299	14	97	286	1,391	26	57	85	138	13,250
8.15	2.02	3.94	3.95	1.83	1.39	1.22	7.52	.89	.52	.....	.....	.....
18.09	.50	1.99	2.29	.11	.74	2.20	10.68	.20	.44	.....	.....	.....
141	7	59	42	8	32	17	139	11	9	28	64	1,738
36	3	9	12	.....	.....	9	18	2	2	15	29	651
30	.....	6	2	.....	1	2	14	.....	1	4	4	647
250	41	103	75	30	79	42	206	48	25	76	128	3,738
1,433	500	742	754	460	257	171	1,232	173	90	410	459	16,243
.....	1	.....	.....	.....	1	.....	.....	1	.....	.....	1	13
164	12	80	89	18	11	41	207	10	19	86	50	2,683
141	5	50	21	7	4	34	93	12	2	29	62	1,576
273	44	143	201	30	37	54	349	12	11	194	141	4,784
8	.....	.....	1	.....	.....	3	14	.....	.....	3	1	274
15	2	1	3	.....	.....	2	5	.....	.....	1	.....	222
2,227	45	231	269	12	87	258	1,304	25	43	73	129	11,480
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
28	.....	3	1	.....	.....	7	13	.....	.....	4	2	215
5	.....	7	.....	.....	1	3	8	.....	.....	1	3	194
73	18	17	25	2	9	13	47	1	14	3	3	855



NORTH SIDE FREE EMPLOYMENT OFFICE. 259-261 NORTH CLARK  
STREET. CHICAGO.

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SEVENTH ANNUAL REPORT FOR THE YEAR ENDED SEPTEMBER 30, 1905.

(Charles McMahon, Superintendent).

HON. DAVID ROSS.

*Secretary, Bureau of Labor Statistics, Springfield, Illinois.*

SIR -Complying with section six of the act of the General Assembly, creating the Illinois Free Employment Offices, I herewith submit the seventh annual report of the business of the North Side Office for the year ended September 30, 1905, together with the expense of maintaining the office for the same period. This report will give in detail the work of this office for the time herein stated.

Respectfully submitted.

CHARLES MCMAHON,  
*Superintendent.*

*Expense Account from October 1, 1904, to September 30, 1905.*

Stenographer, salary.....	\$ 720 00	Toilet supplies.....	24 00
Clerk, salary.....	800 00	Rent of typewriter.....	48 00
Janitor, salary.....	600 00	Advertising.....	265 02
Office rent.....	1,200 00	Time clock service.....	12 00
Postage.....	138 50	City Directory Co.....	7 50
Telephone service.....	143 05	Miscellaneous sundries.....	35 12
Ice and mineral water.....	10 50		
Gas.....	28 09	Total.....	\$4,030 78

*Annual Report of the Chicago North Side Free Employment Office to the State Bureau of Labor Statistics, for the Year Ended Sept. 30, 1905.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
MALES.						
1	Bakers .....	2	2		2	
2	Barbers .....	1		1	1	1
3	Barnmen .....	70	67	3	70	3
4	Bartenders .....	6	5	1	7	2
5	Blacksmiths .....	2	2		2	
6	Bookkeepers .....	3	3		3	
7	Boys .....	190	171	19	219	48
8	Butchers .....	1	1		2	1
9	Butlers .....	2	2		3	1
10	Cabinet makers .....	3	3		5	2
11	Canvassers .....	39	20	19	44	24
12	Carpenters .....	43	38	5	50	12
13	Carriage and wagon washers .....	5	5		5	
14	Cigar makers .....	1	1		1	
15	Clerks, not stated .....	50	46	4	50	4
16	Coachmen .....	9	9		9	
17	Collectors .....	4	2	3	3	2
18	Compositors .....	2	2		2	
19	Cooks .....	58	52	6	59	7
20	Deck hands .....	136	131	5	151	20
21	Dish washers .....	48	47	1	47	
22	Distributors .....	13	13		20	7
23	Drivers .....	32	29	3	30	1
24	Electricians .....	1		1	1	1
25	Elevatormen .....	6	4	2	4	
26	Engineers .....	4	3	1	3	
27	Factory hands .....	108	101	7	121	20
28	Farmers .....	181	161	20	187	26
29	Firemen .....	6	6		6	
30	Finishers .....	8	5	3	8	3
31	Gardeners .....	8	8		8	
32	Guards .....	5		5	5	5
33	Handy men .....	165	163	2	167	4
34	Housemen .....	369	362	7	380	18
35	Janitors .....	86	83	3	85	2
36	Kitchenwork .....	18	16	2	17	1
37	Laborers .....	1,976	1,920	56	2,207	287
38	Lathe hands .....	7	6	1	6	
39	Machinists .....	9	7	2	8	1
40	Messengers .....	1	1		1	

*North Side Office—Concluded.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
41	Molders .....	32	30	2	50	20
42	Nurses .....	1	1	.....	1	.....
43	Office help .....	40	40	.....	40	.....
44	Oilers .....	1	1	.....	1	.....
45	Packers .....	4	4	.....	4	.....
46	Painters .....	15	14	1	15	1
47	Paper hangers .....	3	2	1	3	1
48	Pan washers .....	12	12	.....	13	1
49	Porters .....	235	221	14	229	8
50	Printers .....	4	1	3	4	3
51	Salesmen .....	6	6	.....	.....	.....
52	Solicitors .....	14	3	11	18	15
53	Stockmen .....	63	62	1	68	6
54	Tailors .....	2	2	.....	3	1
55	Teamsters .....	46	42	4	44	2
56	Tinsmiths .....	16	12	4	19	7
57	Tool makers .....	2	2	.....	2	.....
58	Undertakers .....	1	1	.....	1	.....
59	Upholsterers .....	3	1	2	4	3
60	Waiters .....	9	8	1	8	.....
61	Watchmen .....	9	9	.....	9	.....
62	Whitewashers .....	1	1	.....	1	.....
63	Window washers .....	59	59	.....	65	6
64	Yardmen .....	1	1	.....	1	.....
Totals males.....		4,257	4,025	232	4,603	578
Positions secured, previous applica- tions.....		.....	191	191	.....	191
Totals for year.....		4,257	4,216	41	4,603	387
FEMALES.						
1	Addressers.....	1	1	.....	1	.....
2	Bakers .....	.....	.....	.....	1	1
3	Bookkeepers .....	2	.....	2	.....	.....
4	Canvassers.....	2	2	.....	25	23
5	Cashiers.....	1	1	.....	2	1
6	Clerks .....	15	13	2	19	6
7	Chambermaids.....	233	229	4	235	36
8	Companions .....	1	1	.....	1	.....
9	Cooks .....	390	376	14	446	90
10	Dayworkers .....	378	371	7	384	13
11	Dining room help.....	115	106	7	176	68
12	Dishwashers.....	209	198	11	242	44
13	Factory work .....	107	87	20	204	117
14	General housework.....	1,545	1,515	30	1,914	399
15	Governesses.....	1	1	.....	1	.....
16	Housekeepers.....	67	50	17	75	25
17	Janitresses.....	3	2	1	3	1
18	Kitchen help .....	291	277	14	315	38
19	Laundresses.....	73	68	5	95	27
20	Nurses .....	90	72	18	104	32
21	Office work .....	7	5	2	8	3
22	Pantry work .....	37	35	2	40	5
23	Pan washers .....	1	1	.....	2	1
24	Saleswomen .....	1	1	.....	.....	.....
25	Scrubwomen .....	83	82	1	94	12
26	Seamstresses.....	64	53	11	125	72
27	Second work .....	95	89	6	118	29
28	Solicitors .....	.....	.....	.....	6	6
29	Stenographers.....	13	12	1	15	3
30	Waitresses .....	49	46	3	107	61
Totals females.....		3,874	3,696	178	4,810	1,114
Positions secured, previous applica- tions.....		.....	113	113	.....	113
Totals for year.....		3,874	3,809	65	4,810	1,091

**SOUTH SIDE FREE EMPLOYMENT OFFICE. 439-431 WABASH  
AVENUE, CHICAGO.**

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**SEVENTH ANNUAL REPORT. FOR THE YEAR ENDED SEPT. 30, 1905.**

**[George W. Geary, Superintendent.]**

**HON. DAVID ROSS,**

*Secretary Bureau of Labor Statistics, Springfield, Ill.:*

**SIR—Complying with section 6 of the act of the General Assembly creating the Illinois Free Employment offices, I herewith submit the seventh annual report of the business of the South Side Office for the year ended Sept. 30, 1905, together with the expense of maintaining the office for the same period. This report will give in detail the work of this office for the time herein stated.**

**Respectfully submitted,**

**GEORGE W. GEARY,**

*Superintendent.*

*Expense Account from October 1, 1904, to September 30, 1905.*

Male clerk, salary.....	\$ 800 00	Office furniture, repairs, cleaning..	212 00
Female clerk, salary.....	720 00	Office supplies.....	95 00
Stenographer, salary.....	720 00	Delivering reports, miscellaneous,	
Janitor, salary.....	600 00	etc.....	311 00
Telephone and toll service.....	160 00	Advertising.....	400 00
Rent of office.....	1,044 00	Postage.....	300 00
Light and power.....	96 00	Total.....	\$5,540 00
Telegraph service.....	22 00		
Ice and water.....	60 00		

*Annual Report of the Chicago South Side Free Employment Office to the State Bureau of Labor Statistics for the year ended Sept. 30, 1905.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
MALES.						
1	Agents.....	37	34	3	34	
2	Architects.....	1	1		1	
3	Artists.....	3	1	2	1	
4	Bakers.....	19	16	3	16	
5	Barbers.....	3	3		4	1
6	Barnmen.....	108	97	11	98	1
7	Bartenders.....	13	13		13	
8	Blacksmiths.....	19	18	1	20	2
9	Boiler makers.....	4	4		4	
10	Bookkeepers.....	16	9	7	10	1
11	Bootblacks.....	4	3	1	3	
12	Boxmakers.....	39	37	2	37	
13	Boys, bell.....	12	10	2	14	4
14	Boys, cash.....	21	20	1	23	3
15	Boys, delivery.....	44	41	3	47	6
16	Boys, errand.....	57	56	1	73	17
17	Boys, office.....	58	55	3	68	13
18	Bricklayers.....	6	6		11	5
19	Butchers.....	10	9	1	9	
20	Butlers.....	7	7		7	
21	Cabinet makers.....	11	10	1	27	17
22	Calcininers.....	27	25	2	25	
23	Carpet layers.....	16	15	1	15	
24	Carpenters.....	142	138	4	149	11
25	Carriage and wagon washers.....	36	32	4	33	1
26	Cashiers.....	3	3		3	
27	Clerks, office.....	27	21	6	21	
28	Clerks, dry goods.....	1	1		1	

*South Side Office—Continued.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
29	Clerks, general.....	59	35	24	36	1
30	Clerks, shipping.....	11	9	2	9	
31	Coachmen.....	23	19	4	19	
32	Collectors.....	8	5	3	5	
33	Cooks.....	223	190	33	201	11
34	Deck hands.....	1	1		1	
35	Dishwashers.....	243	233	10	237	4
36	Electricians.....	14	9	5	9	
37	Elevatormen.....	60	52	8	53	1
38	Engineers.....	35	21	11	25	1
39	Factory hands.....	301	294	7	344	50
40	Farm hands.....	333	313	20	450	137
41	Firemen.....	66	54	12	54	
42	Florists.....	46	40	6	40	
43	Gardeners.....	2	2		2	
44	Harness makers.....	2	2		2	
45	Hat cleaners.....	1	1		1	
46	Hostlers.....	17	17		17	
47	Housemen.....	498	456	42	463	7
48	Interpreters.....	1	1		1	
49	Janitors.....	158	128	30	130	2
50	Kitchenwork.....	147	135	12	135	
51	Laborers.....	1,944	1,891	53	2,214	323
52	Laborers, railroad.....	2,358	2,339	19	2,627	288
53	Laundrymen.....	13	12	1	13	1
54	Machine hands.....	14	14		14	
55	Machinists.....	35	33	2	34	1
56	Messengers.....	1	1		1	
57	Milkmen.....	7	7		7	
58	Millwrights.....	10	8	2	12	4
59	Miners.....	13	11	2	92	81
60	Molders.....	6	6		36	30
61	Models.....	2	2		3	1
62	Motormen.....	8	8		8	
63	Nurses.....	7	5	2	6	1
64	Orderlies.....	4	4		4	
65	Packers.....	54	46	8	50	4
66	Painters.....	39	31	8	34	3
67	Paper hangers.....	6	5	1	7	2
68	Pantrymen.....	2	2		2	
69	Pattern makers.....	2	2		3	1
70	Plumbers.....	1		1		
71	Porters.....	501	447	54	457	10
72	Pressers.....	9	7	2	9	2
73	Printers.....	4	1	3	1	
74	Roofers.....	1	1		1	
75	Salesmen.....	6	6		6	
76	Shoemakers.....				1	1
77	Solicitors.....	55	53	2	103	50
78	Steam fitters.....	11	10	1	10	
79	Stenographers.....	7	3	4	3	
80	Stockmen.....	258	238	20	245	7
81	Surveyors.....	1	1		1	
82	Tailors.....	6	6		9	3
83	Teamsters.....	91	82	9	84	2
84	Tinsmiths.....	6	4	2	6	2
85	Truckmen.....	14	14		14	
86	Upholsterers.....	11	8	3	9	1
87	Waiters.....	359	321	38	330	9
88	Watchmen.....	24	23	1	64	41
89	Window washers.....	147	145	2	152	7
90	Yardmen.....	112	104	8	104	
Totals.....		9,142	8,606	536	9,777	1,171
Positions secured, previous applications.....			16	16		16
Totals for year.....		9,142	8,622	520	9,777	1,155

*South Side Office—Concluded.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
	<b>FEMALES.</b>					
1	Agents.....				8	8
2	Bookkeepers.....	2		2		
3	Bookbinders.....	1		1	3	3
4	Cashiers.....	9	2	7	2	
5	Clerks.....	8	5	3	7	2
6	Chambermaids.....	361	340	21	420	80
7	Companions.....	1		1		
8	Cooks.....	423	398	25	485	87
9	Dayworkers.....	212	202	10	220	18
10	Demonstrators.....	3		3	1	1
11	Dishwashers.....	316	294	22	356	62
12	Factory work.....	214	193	21	273	80
13	Housekeepers.....	92	77	15	86	9
14	Housework.....	1,282	1,233	49	1,803	570
15	Kitchen help.....	295	274	21	316	42
16	Lady's maid.....	1	1		2	1
17	Laundresses.....	98	85	13	115	30
18	Nurses.....	71	67	4	74	7
19	Office work.....	64	36	28	38	2
20	Pantry work.....	48	43	5	52	9
21	Reception service.....	1		1		
22	Saleswomen.....	4	1	3	4	3
23	Scrubwomen.....	260	253	7	283	30
24	Seamstresses.....	34	29	5	32	3
25	Second work.....	70	65	5	96	31
26	Solicitors.....	4	2	2	18	16
27	Stenographers.....	30	19	11	21	2
28	Teachers, not stated.....	1		1		
29	Waitresses.....	355	336	19	470	134
	Totals.....	4,260	3,955	305	5,185	1,230
	Positions secured, previous applications.....		128	128		128
	Totals for year.....	4,260	4,083	177	5,185	1,102

WEST SIDE FREE EMPLOYMENT OFFICE, CORNER CANAL AND  
RANDOLPH STREETS, CHICAGO.

SEVENTH ANNUAL REPORT, FOR THE YEAR ENDED SEPT. 30, 1905.

(S. P. REVERE, Superintendent.)

HON. DAVID ROSS,

*Secretary Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section six of the act of the General Assembly, creating the Illinois Free Employment offices, I herewith submit the seventh annual report of the business transacted in this office for the year ended Sept. 30, 1905, together with the expense account for maintaining the office for the same period.

The report shows a great increase in the number of applications for help, also for positions secured applicants for employment, over previous years. This in a great measure is due to the fact that we have been called upon to furnish the entire system of the Chicago & Northwestern Railway with laborers, through its labor agent, Mr. T. S. Bertrand.

We have furnished a great many laborers to other railroads, and have during the past year received applications for help from all over the city and State, also a great many requests come from outside of the State even as far as California. During the past six months we have been unable to supply the demand made for laborers, and, while there has been a slight decrease, the demand will undoubtedly be renewed and continue indefinitely.

The past year we have succeeded in compelling several private employment agencies to return money obtained from applicants for positions when they had refused to do so after the legal limit had expired. In this connection I desire to suggest that to make this office more effective all private employment agencies located on the west side of Chicago be put under the control of this office. Any violation of the law by any agency located on this side of the city should be prosecuted by this office. If this authority is given to this office, I will be able in a very short time to eradicate from the west side, all of the private employment agencies that are being conducted unlawfully.

Respectfully submitted,

S. P. REVERE,  
*Superintendent.*



*Expense Account from Oct. 1, 1904, to Sept. 30, 1905.*

Clerk, salary.....	\$800 00	Heating apparatus installation.....	100 00
Stenographer, salary.....	720 00	Postage.....	100 00
Janitor, salary.....	600 00	Advertising.....	376 40
Rent of office.....	700 00	Repairing typewriter and supplies.....	19 25
Light.....	41 58	Janitor supplies.....	18 95
Ice.....	39 36	Office furniture, etc.....	356 20
Telephone service.....	131 45	Cleaning and repairing office.....	139 05
Towel supply.....	22 50	Miscellaneous.....	72 40
Springfield trip.....	10 65		
Electric light installation.....	47 00	Total.....	\$4,294 77

*Annual Report of the Chicago West Side Free Employment Office,  
to the State Bureau of Labor Statistics, for the Year Ended Sept.  
30, 1905.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
MALES.						
1	Agents.....	2		2		
2	Any light work.....	137	4	133	4	
3	Apprentices.....	47	8	39	8	
4	Auctioneers.....	1		1		
5	Baggagemen.....	2	2		2	
6	Bakers.....	22	5	17	5	
7	Barbers.....	6	5	1	6	1
8	Barnmen.....	42	31	11	31	
9	Bartenders.....	32	10	22	10	
10	Bench hands.....	39	7	32	7	
11	Blacksmiths.....	42	18	24	20	2
12	Blacksmith helpers.....	24	6	18	6	
13	Boiler makers.....	4		4		
14	Bookbinders.....	3	1	2	1	
15	Bookkeepers.....	19		19		
16	Bottlers.....	1		1		
17	Box makers.....	5		5		
18	Boys.....	339	220	119	221	1
19	Brakemen.....	4		4		
20	Brass finishers.....	14	1	13	1	
21	Brick layers.....	1		1		
22	Brush makers.....	1		1		
23	Butchers.....	13	2	11	2	
24	Butlers.....	1		1		
25	Cabinet makers.....	65	38	27	38	
26	Can makers.....	1		1		
27	Candy makers.....	1		1		
28	Canvassers.....	26	21	5	21	
29	Carpenters.....	124	76	48	77	1
30	Carriage and wagon washers.....	21	16	5	16	
31	Checkers.....	7	3	4	3	
32	Cigar makers.....	1		1		

*West Side Office—Continued.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
33	Circular distributors.....	36	35	1	35	
34	Cleaners, harness.....	3	2	1	2	
35	Clerks, not stated.....	292	45	247	45	
36	Coachmen.....	24	15	9	15	
37	Coal heavers.....	1		1		
38	Coal miners.....	1	1		1	
39	Collectors.....	13	1	12	1	
40	Cooks.....	84	32	52	32	
41	Coopers.....	1		1		
42	Conductors.....	2		2		
43	Copyists.....	1		1		
44	Core makers.....	9	2	7	2	
45	Die setters.....	1		1		
46	Dish washers.....	39	23	11	28	
47	Draughtsmen.....	1		1		
48	Drill pressmen.....	46	10	36	10	
49	Drivers.....	119	27	92	27	
50	Druggists.....	1		1		
51	Electricians.....	21	1	20	1	
52	Elevatormen.....	60	13	47	13	
53	Engineers.....	81	29	52	29	
54	Factory hands.....	786	426	360	426	
55	Farm hands.....	456	336	129	342	6
56	Firemen.....	107	11	96	11	
57	Florists.....	3		3		
58	Foundrymen.....	7		7		
59	Furnace tenders.....	2	2		2	
60	Gardeners.....	19	4	15	4	
61	Harness makers.....	3	1	2	1	
62	Horseshoers.....	1	1		1	
63	Hostlers.....	18	14	4	14	
64	Housemen.....	89	38	51	38	
65	Ice cream makers.....	1	1		1	
66	Iron workers.....	12		12		
67	Janitor.....	138	30	108	32	2
68	Kitchen work.....	25	11	14	11	
69	Laborers.....	7,037	6,823	209	6,829	1
70	Lathe hands.....	12		12		
71	Lathers.....	5		5		
72	Laundrymen.....	14	12	2	12	
73	Locksmiths.....	4		4		
74	Machine hands.....	130	14	116	14	
75	Machinists.....	243	38	205	38	
76	Metal workers.....	11	5	6	5	
77	Millers.....	1		1		
78	Millwrights.....	7	2	5	2	
79	Molders.....	37	2	35	2	
80	Molders helpers.....	77	75	2	75	
81	Office help.....	1		1		
82	Oilers.....	13	1	12	1	
83	Packers.....	87	48	39	48	
84	Painters.....	39	9	30	9	
85	Paper hangers.....	2	2			
86	Pantrymen.....	1				
87	Pattern makers.....	1		1		
88	Photographers.....	1		1		
89	Piano finishers.....	1		1		
90	Piano tuners.....	1		1		
91	Plasterers.....	1	1		1	
92	Plumbers.....	5		5		
93	Polishers, metal.....	4		4		
94	Polishers, not stated.....	15	2	13	2	
95	Porters.....	239	124	115	124	
96	Pressers.....	4		4		
97	Printers.....	4		4		
98	Punch press hands.....	23	1	22	1	
99	Railroad men.....	3		3		

## West Side Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
100	Sailors .....	2	2	.....	2	.....
101	Salesmen .....	27	9	18	9	.....
102	Sawyers .....	8	5	3	5	.....
103	Shoemakers .....	5	1	4	1	.....
104	Solicitors .....	17	16	1	16	.....
105	Steam fitters .....	9	2	7	2	.....
106	Stenographers .....	4	1	3	1	.....
107	Stock keepers .....	103	86	17	86	.....
108	Tailors .....	4	.....	4	.....	.....
109	Teamsters .....	122	57	65	57	.....
110	Time keepers .....	7	.....	7	.....	.....
111	Tinsmiths .....	22	8	14	8	.....
112	Tool makers .....	14	2	12	2	.....
113	Truckmen .....	409	388	21	388	.....
114	Trunkmakers .....	1	.....	1	.....	.....
115	Upholsterers .....	2	2	.....	2	.....
116	Vise hands .....	1	.....	1	.....	.....
117	Wagon makers .....	7	6	1	6	.....
118	Walters .....	28	12	16	15	3
119	Watchmen .....	134	62	72	62	.....
120	Wholesale men .....	15	.....	15	.....	.....
121	Window dressers .....	1	.....	1	.....	.....
122	Window washers .....	33	30	3	30	.....
123	Wood finishers .....	4	4	.....	4	.....
124	Wood workers .....	10	2	8	2	.....
125	Yardmen .....	10	8	2	8	.....
126	Miscellaneous, not classified .....	748	553	195	560	7
	Totals for year .....	13,329	10,010	3,319	10,034	24
	FEMALES.					
1	Addressers .....	17	8	9	9	1
2	Apprentices .....	1	.....	1	.....	.....
3	Agents .....	1	.....	1	.....	.....
4	Bottle labelers .....	27	26	1	26	3
5	Bottle washers .....	17	16	1	16	2
6	Canvassers .....	8	6	2	10	4
7	Cashiers .....	9	.....	9	.....	.....
8	Clerks .....	6	2	4	2	.....
9	Chambermaids .....	239	187	52	198	11
10	Companions .....	1	.....	1	1	1
11	Cooks .....	209	108	101	156	48
12	Copyists .....	2	.....	2	.....	.....
13	Day workers .....	193	43	150	49	6
14	Diningroom work .....	54	42	12	55	13
15	Dishwashers .....	127	93	34	103	12
16	Domestics .....	571	522	49	999	477
17	Dressmakers .....	2	.....	2	2	2
18	Factory work .....	335	288	47	445	157
19	Finishers .....	1	.....	1	.....	.....
20	Folders, circulars .....	4	4	.....	5	1
21	Fruit pickers .....	21	21	.....	40	19
22	Hotel help .....	8	7	1	10	3
23	Housekeepers .....	120	50	70	76	26
24	Janitresses .....	5	1	4	3	2
25	Kitchen help .....	166	121	45	132	11
26	Lady's maid .....	1	.....	1	.....	.....
27	Laundresses .....	147	123	24	141	18
28	Matrons .....	1	.....	1	.....	.....
29	Milliners .....	1	.....	1	.....	.....
30	Nurses .....	44	29	15	40	11
31	Office work .....	13	2	11	3	1
32	Pantry work .....	18	9	9	12	3
33	Reception service .....	4	1	3	1	.....

*West Side Office—Concluded.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
34	Saleswomen.....	3	1	2	3	2
35	Scrubwomen.....	154	131	23	134	3
36	Seamstresses.....	74	60	14	77	17
37	Second work.....	26	12	14	19	7
38	Solicitors.....	4	4	.....	5	1
39	Stenographers.....	11	6	5	7	1
40	Switchboard operators.....	5	.....	5	.....	.....
41	Waitresses.....	134	106	28	136	30
	Totals.....	2,784	2,029	755	2,923	894
	Positions secured, previous applica- tions.....	.....	1	1	.....	1
	Totals for year.....	2,784	2,030	754	2,923	893

## PEORIA FREE EMPLOYMENT OFFICE—PEORIA, ILLINOIS.

FIFTH ANNUAL REPORT FOR THE YEAR ENDED SEPT. 30, 1905.

(D. E. Conigisky, Assistant Superintendent.)

HON. DAVID ROSS,

*Secretary Bureau of Labor Statistics, Springfield, Illinois.*

SIR—In compliance with section six of the act of the General Assembly of the State, creating the Illinois Free Employment offices, I herewith submit the fifth annual report of this office for the year ended Sept. 30, 1905, together with an itemized statement of the expenses for maintaining the office for the year.

The report shows a material increase in the number of positions secured for the unemployed, demonstrating that work has been reasonably plentiful and that the people have confidence in the Free Employment Agencies of this State.

Respectfully submitted,

D. E. GONISKY,

*Assistant Superintendent.*

*Statement of the Expenses of the Peoria, Illinois Free Employment Office for the Year Ended Sept. 30, 1905.*

Rent of office.....	\$720 00	Carpenter work.....	\$ 23 65
Stenographer, salary.....	720 00	Painting signs.....	17 75
Advertising.....	379 50	Carpets.....	26 50
Telephone service.....	104 85	City directory.....	5 00
Towel supply, etc.....	13 20	Awnings.....	20 00
Postage and expressage.....	65 75	Repairing furniture.....	9 80
Ice.....	17 50	Window shades.....	14 40
Janitor.....	56 00	Miscellaneous, sundries, repairs, etc.....	202 03
Telegraph and messengers.....	20 13		
Peoria Electric Co.....	25 04	Total.....	\$2,441 15

*Annual Report of Peoria Free Employment Office, to the State Bureau of Labor Statistics, for the Year Ended Sept. 30, 1905.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
MALES.						
1	Agents.....	6	5	1	5	
2	Apprentices.....	6	5	1	5	
3	Bakers.....	27	24	3	24	
4	Barbers.....	1	1		1	
5	Barnmen.....	92	87	5	88	1
6	Bench hands.....	1		1		
7	Blacksmiths.....	18	12	6	12	
8	Bookkeepers.....	2		2		
9	Boys.....	1	1		1	
10	Boys, bell.....	42	42		48	6
11	Boys, delivery.....	90	85	5	88	3
12	Boys, errand.....	21	20	1	25	5
13	Boys, office.....	5	4	1	4	
14	Boys, elevator.....	6	6		6	
15	Boys, factory.....	12	12		12	
16	Bricklayers.....	3	2	1	2	
17	Brickyard men.....	39	39		39	
18	Butchers.....	4	2	2	2	
19	Cabinet makers.....	3	3		4	1
20	Canvassers.....	65	63	2	67	4
21	Carpet layers.....	4	4		4	
22	Carpenters.....	40	35	5	35	
23	Clerks.....	17	10	7	10	
24	Clerks, drug.....	8	8		8	
25	Clerks, grocery.....	18	9	9	9	
26	Clerks, hotel.....	4	4		4	
27	Coachmen.....	14	7	7	7	
28	Coal miners.....	15	15		22	7
29	Collectors.....	30	21	9	21	
30	Cooks.....	99	78	21	83	5
31	Core makers.....	1		1	1	1
32	Corn huskers.....	12	12		16	4
33	Dairy hands.....	22	21	1	21	

## Peoria Office—Continued.

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
34	Dishwashers.....	86	86		87	1
35	Distributors.....	1	1		1	
36	Drill pressmen.....	18	13	5	13	
37	Drivers.....	7	7		7	
38	Electricians.....	5	2	3	3	1
39	Engineers.....	22	8	14	3	
40	Engineers, civil.....	1		1		
41	Factory hands.....	353	258	95	279	21
42	Farm hands.....	295	253	12	293	10
43	Firemen.....	24	13	11	13	
44	Foremen.....	2		2		
45	Gardeners.....	1	1		1	
46	Harvest hands.....	30	30		30	
47	Hostlers.....	4	4		4	
48	Hotel work.....	51	4	2	50	1
49	Housemen.....	117	106	11	106	2
50	Iron workers.....	2	2		2	
51	Janitors.....	23	14	9	15	1
52	Kitchen work.....	21	21		25	4
53	Laborers.....	2,491	2,308	183	2,339	31
54	Laborers, railroad.....	436	436		450	14
55	Laundrymen.....	1	1		1	
56	Machinists.....	59	51	8	51	
57	Meat cutters and slaughterers.....	4	3	1	3	
58	Mill hands.....	2	1	1	1	
59	Millwrights.....	3	3		3	
60	Molders.....	21	20	1	27	7
61	Office help.....	22	7	15	7	
62	Packers.....	2	2		2	
63	Painters.....	16	12	4	12	
64	Paper hangers.....	1		1		
65	Panwashers.....	18	18		18	
66	Plasterers.....	2	2		2	
67	Polishers, not stated.....	1		1		
68	Porters.....	106	90	16	90	
69	Press feeders.....	4	2	2	2	
70	Pumpmen.....	1	1		1	
71	Punch press hands.....	2	2		2	
72	Salesmen.....	30	13	17	14	1
73	Shoemakers.....	1	1		1	
74	Solicitors.....	4	4		4	
75	Steam fitters.....	4		4		
76	Stenographers.....	2		2		
77	Stovemmen.....	5	4	1	4	
78	Tailors.....	2	2		2	
79	Teamsters.....	160	146	14	147	1
80	Tinners.....	4	3	1	3	
81	Truckmen.....	16	16		16	
82	Upholsterers.....	1		1		
83	Waiters.....	34	32	2	33	1
84	Watchmakers.....	2	2		2	
85	Watchmen.....	5	1	4	1	
86	Window washers.....	3	3		3	
87	Woodworkers.....	18	17	1	17	
88	Yardmen.....	61	56	5	56	
89	Miscellaneous, not classified.....	10	10		10	
Totals, males.....		5,345	4,804	541	4,937	133
FEMALES.						
1	Addressers.....	8	8		8	
2	Bookkeepers.....	14	4	10	4	
3	Canvassers.....	6	6		6	
4	Cashiers.....	10	8	2	8	
5	Clerks.....	62	45	17	45	
6	Collectors.....	7	7		7	
7	Chambermaids.....	160	157	3	159	1
8	Companions.....	4	1	3	1	

*Peoria Office—Concluded.*

Number.	CLASSIFICATION OF OCCUPATIONS.	APPLICATIONS FOR EMPLOYMENT.			APPLICATIONS FOR HELP.	
		Number filed.	Number positions secured.	Number unfilled.	Number filed.	Number unfilled.
9	Cooks.....	105	98	7	99	1
10	Dayworkers.....	208	120	88	121	1
11	Demonstrators.....	1	1	1	1	1
12	Dining room help.....	174	173	1	173	1
13	Dishwashers.....	169	167	2	167	1
14	Factory work.....	114	95	19	95	1
15	General housework.....	757	755	2	1,033	278
16	Hotel help.....	29	28	1	28	1
17	Housekeepers.....	105	86	19	88	2
18	Housework.....	4	4	1	4	1
19	Janitresses.....	11	10	1	10	1
20	Kitchen help.....	98	98	1	98	1
21	Labelers.....	13	13	1	13	1
22	Laundresses.....	3	2	1	3	1
23	Nurses.....	8	5	3	5	1
24	Nurse girls.....	37	28	9	28	1
25	Office work.....	71	7	64	7	1
26	Pantry work.....	19	18	1	18	1
27	Pressers.....	1	1	1	1	1
28	Scrubwomen.....	10	10	1	10	1
29	Seamstresses.....	16	9	7	9	1
30	Second work.....	43	39	4	39	1
31	Solicitors.....	6	6	1	6	1
32	Stenographers.....	47	6	41	6	1
33	Tailoress.....	2	2	1	2	1
34	Waitresses.....	10	8	2	8	1
	Totals, females.....	2,332	2,024	308	2,308	284



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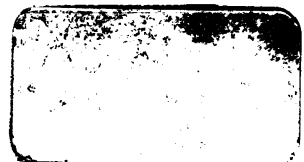








JUN 12 1940



the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 12.5 million, and the number of people aged 75 and over has increased from 4.5 million to 6.5 million (Office for National Statistics 2000).

There is a growing awareness of the need to develop services that meet the needs of older people, and the need to ensure that the health care system is able to meet the needs of older people. The Department of Health (2000) has identified the need to develop services that meet the needs of older people, and the need to ensure that the health care system is able to meet the needs of older people.

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